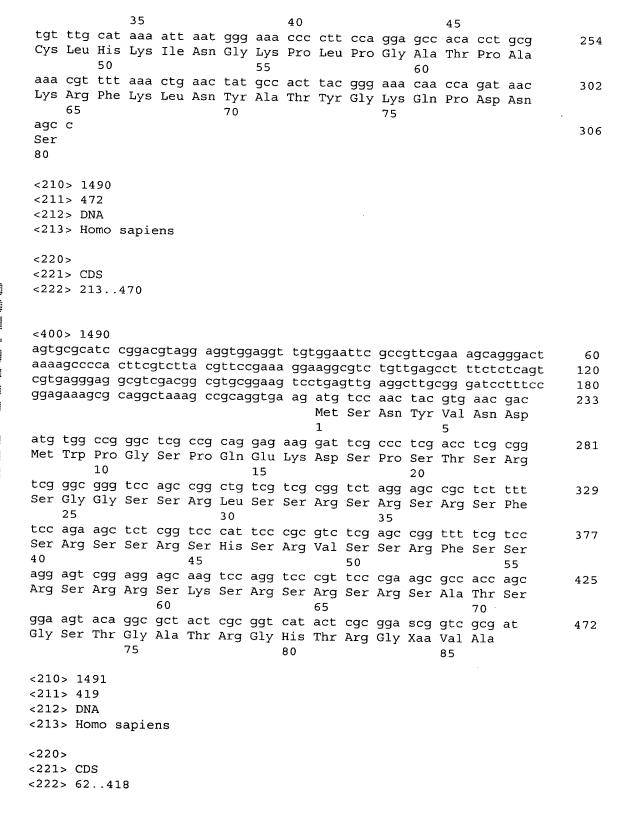
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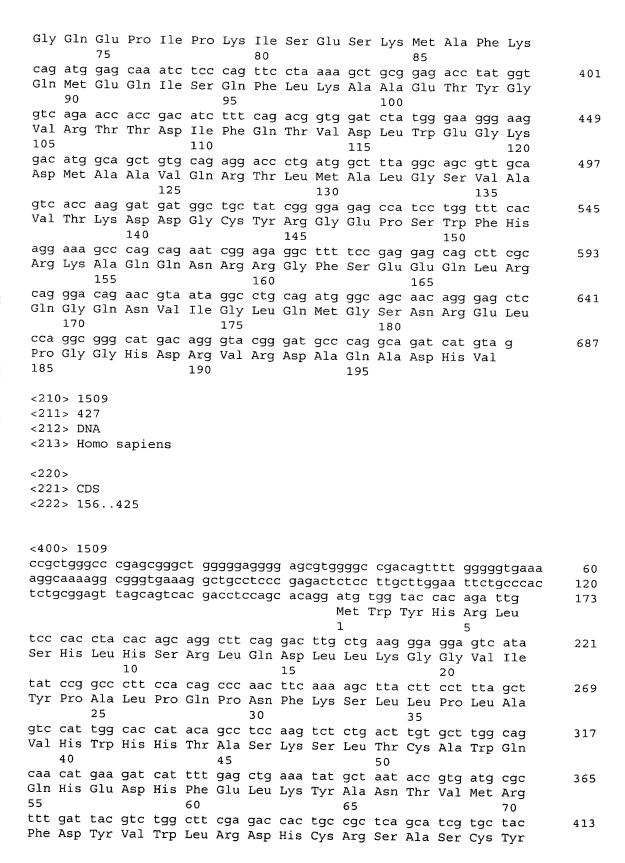
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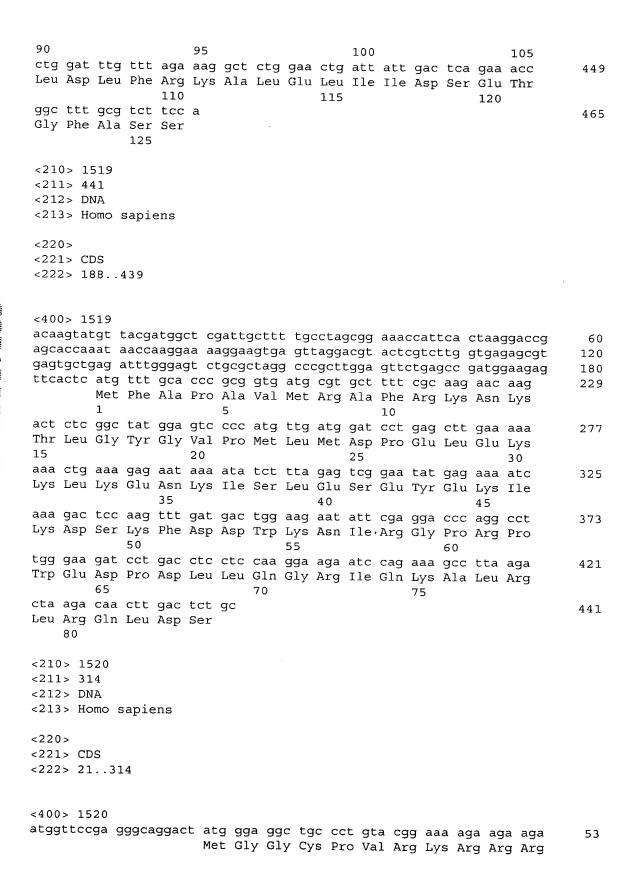
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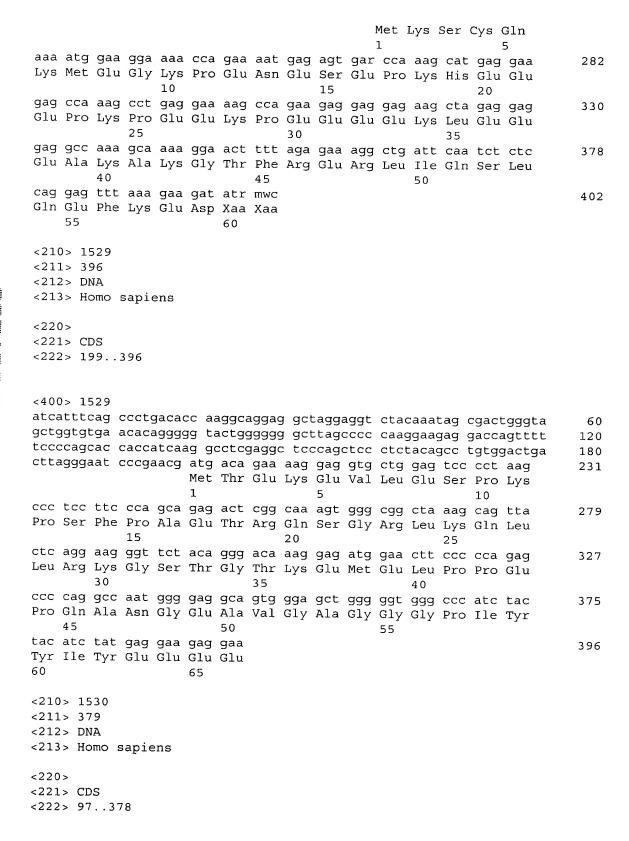
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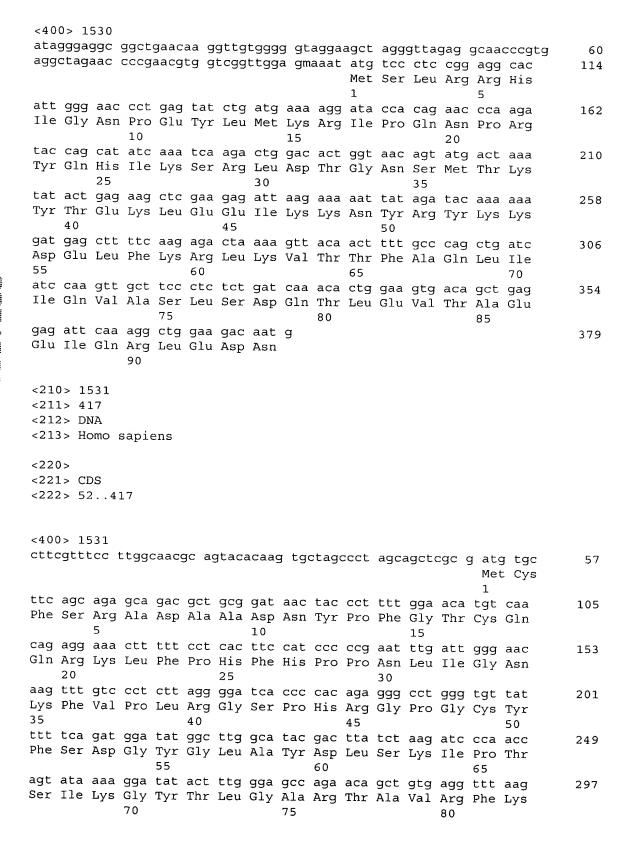
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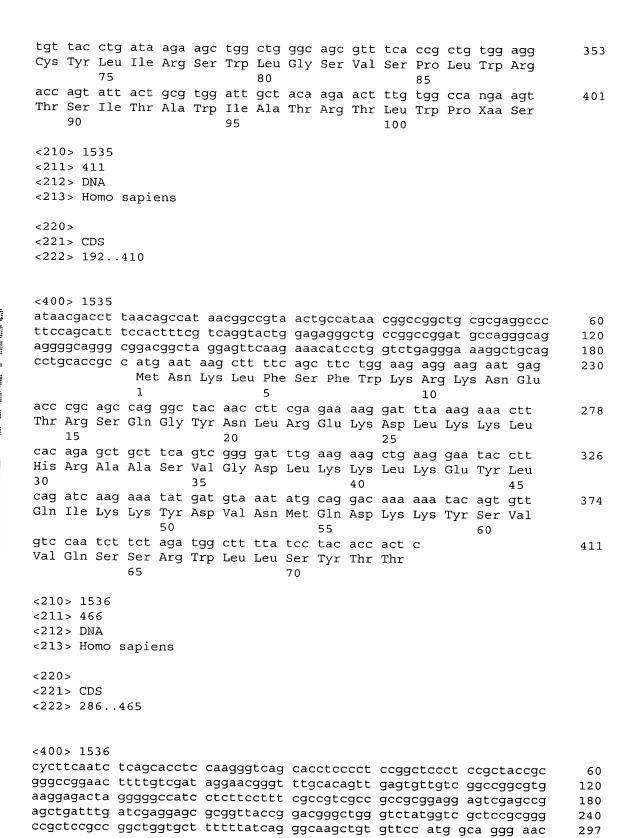
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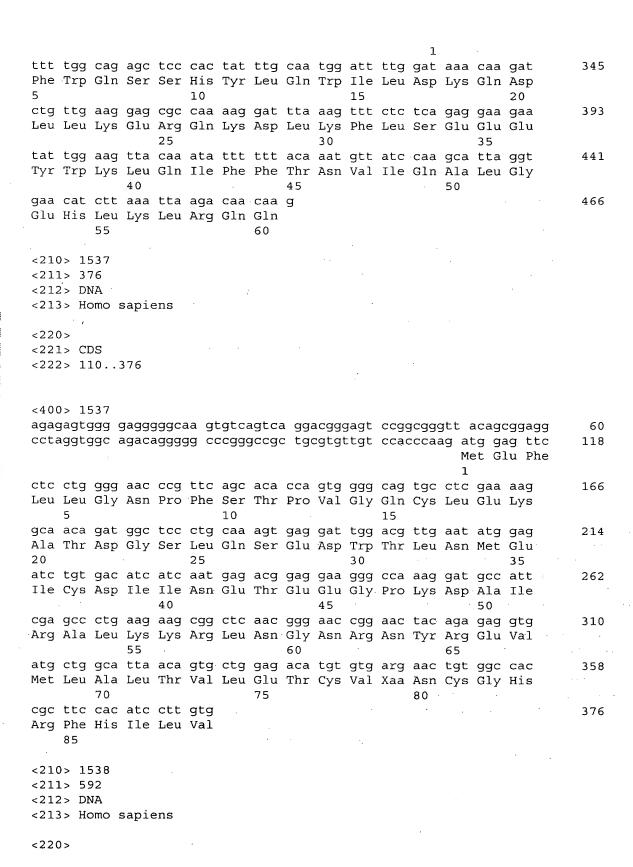


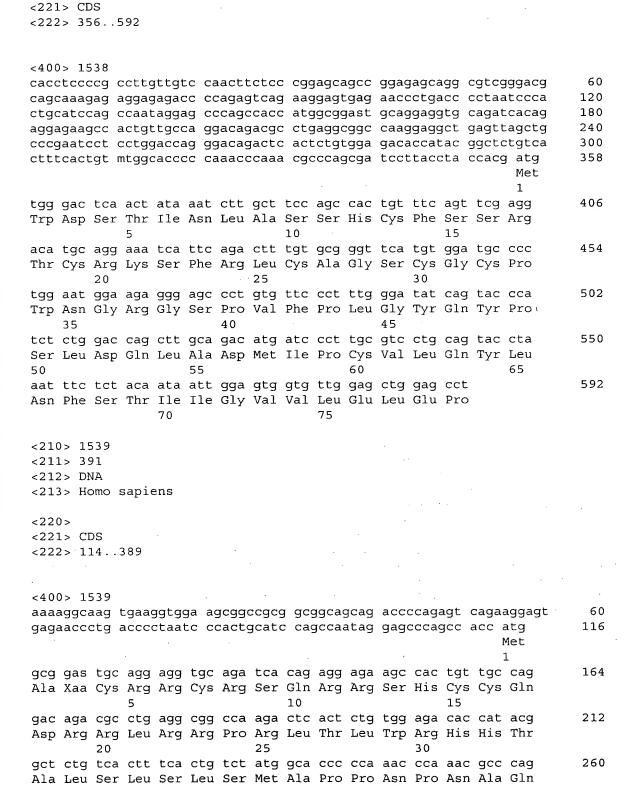
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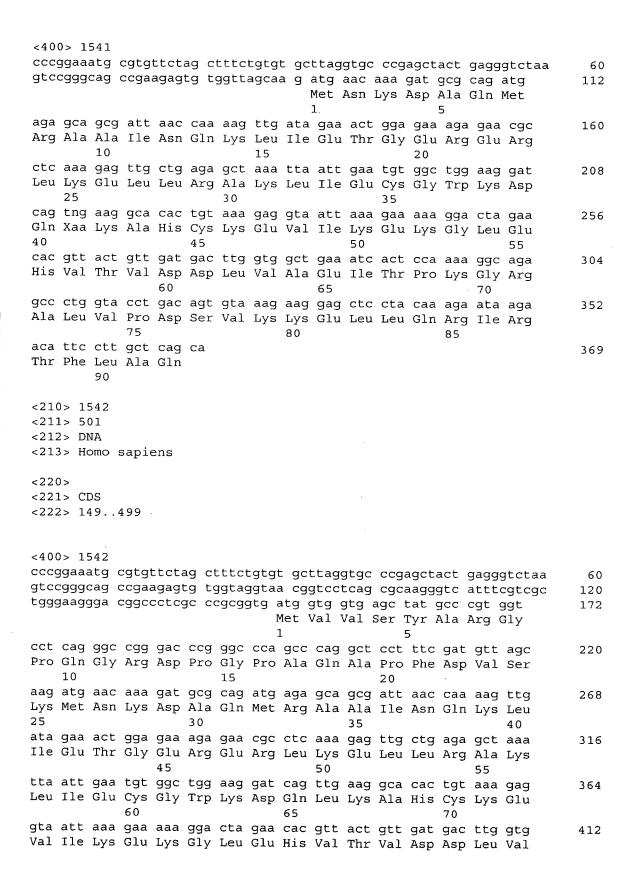


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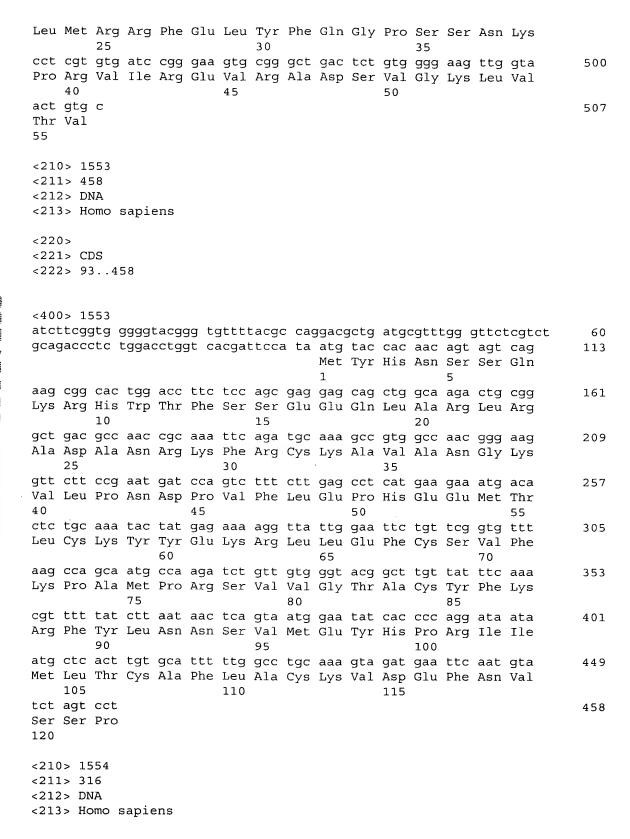
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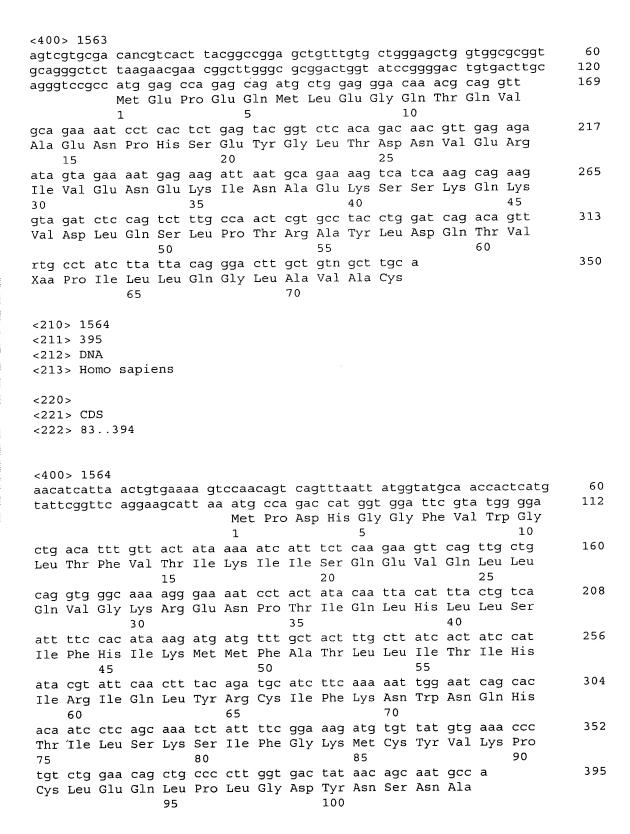


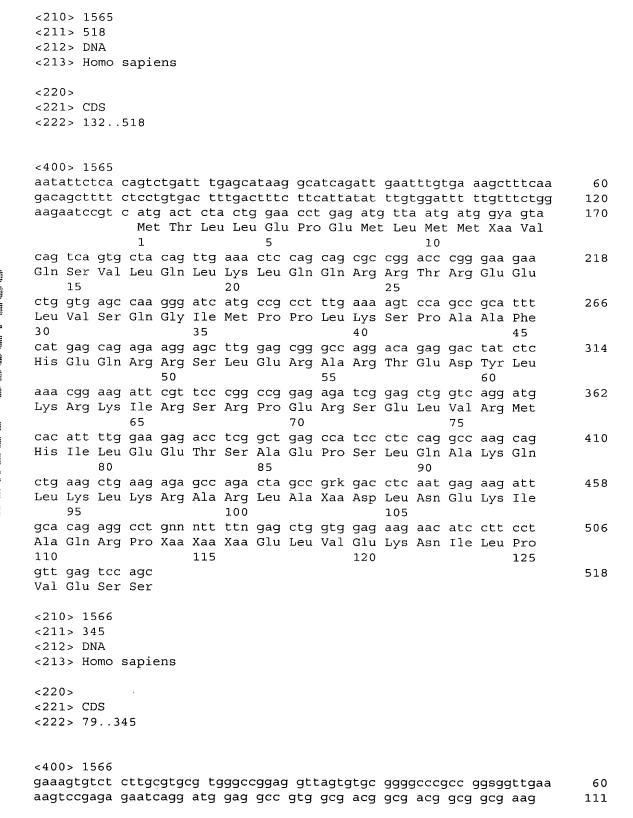
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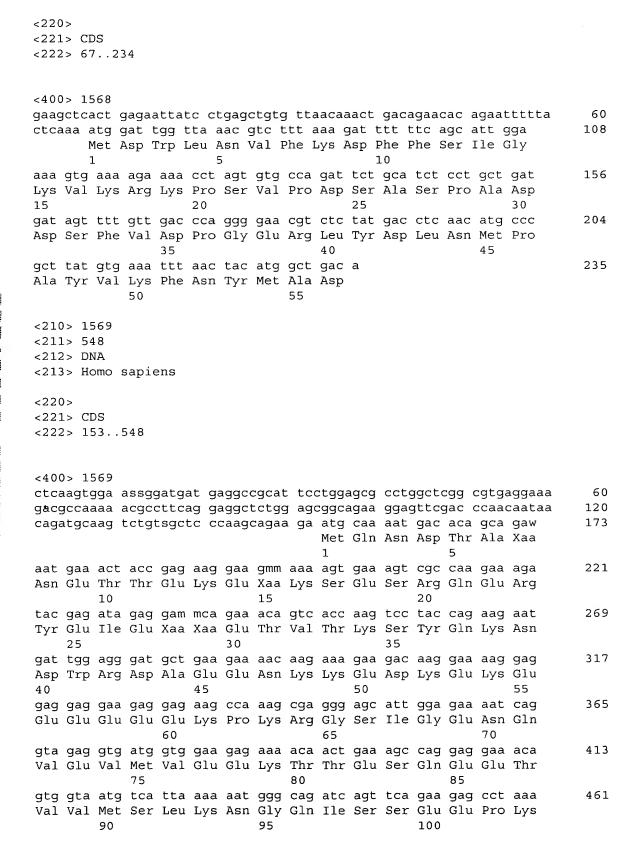


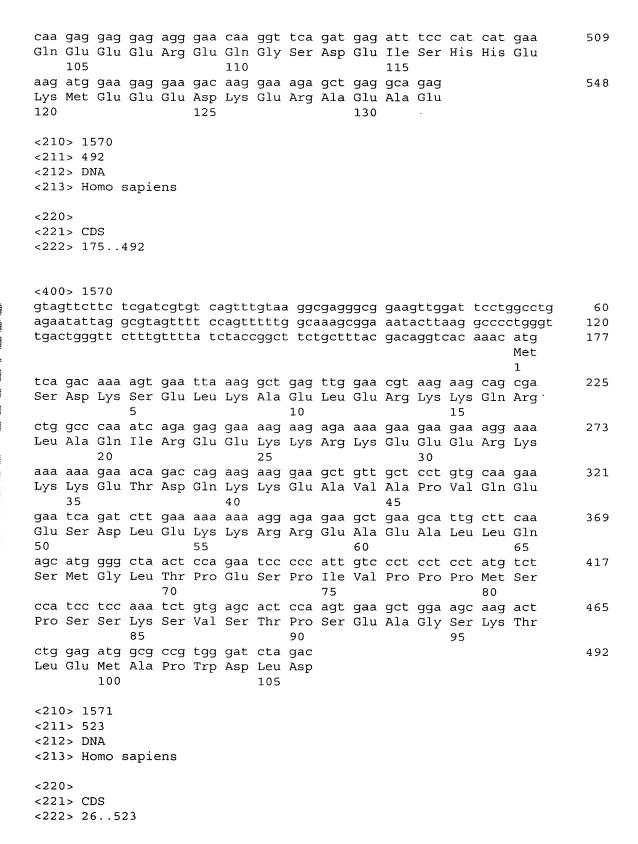
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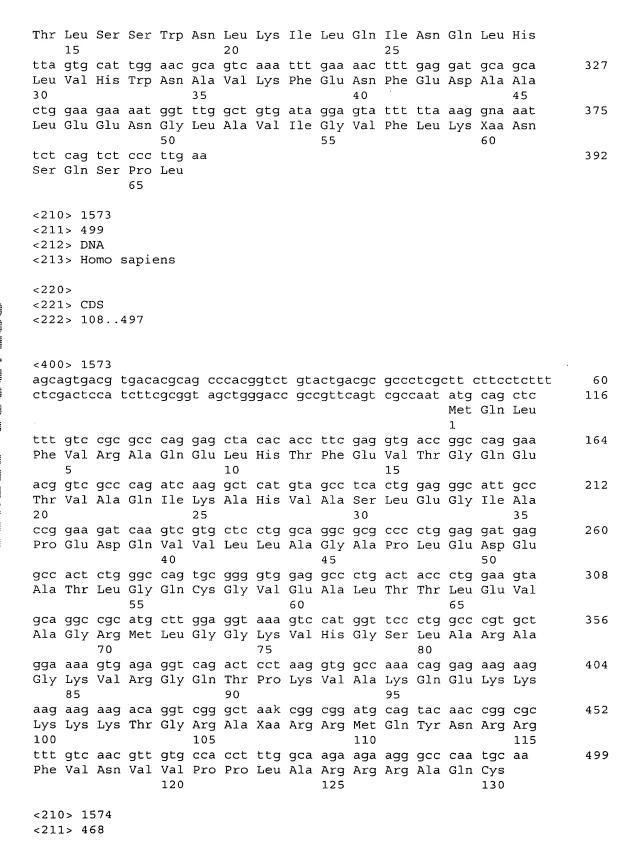


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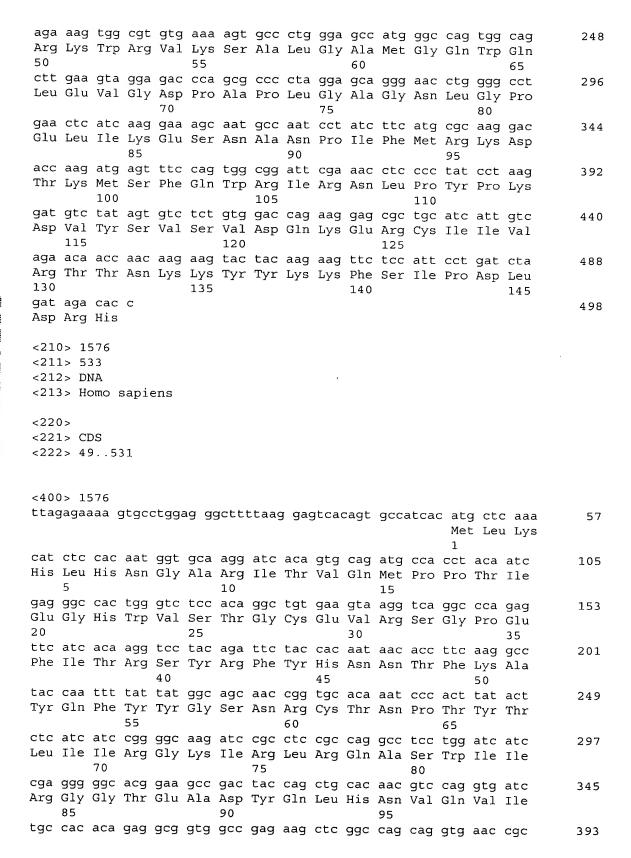




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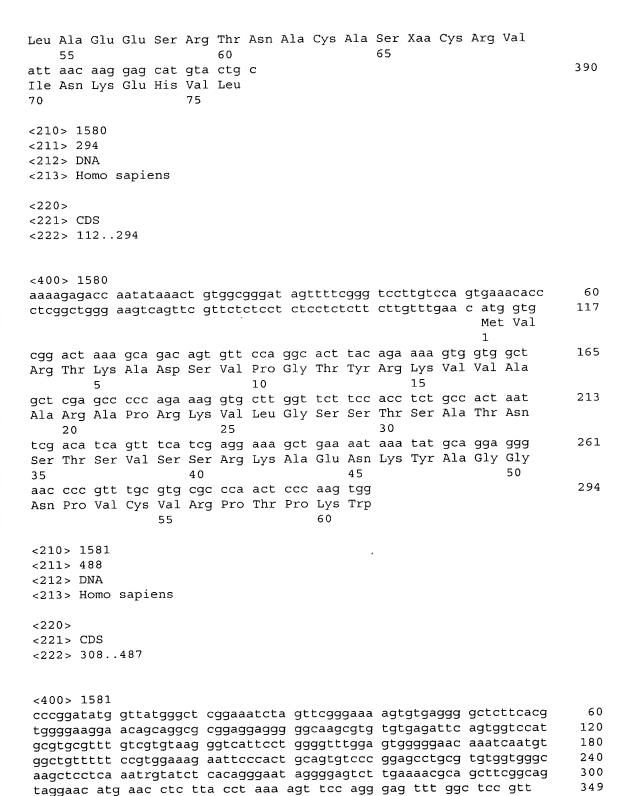
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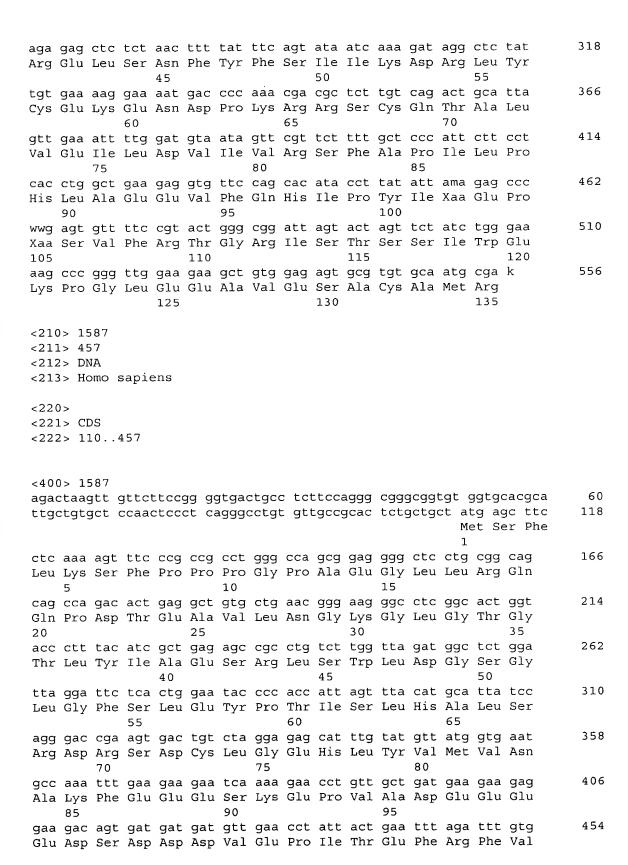
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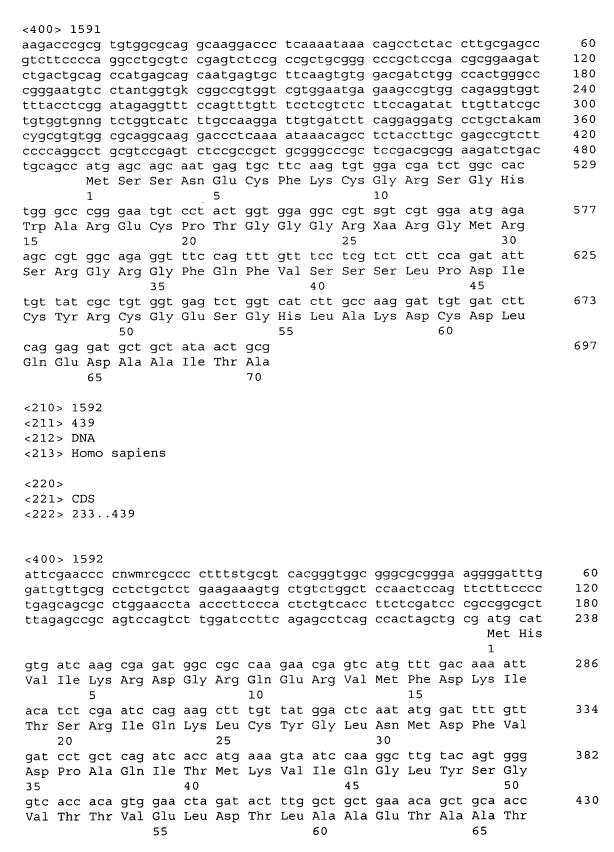
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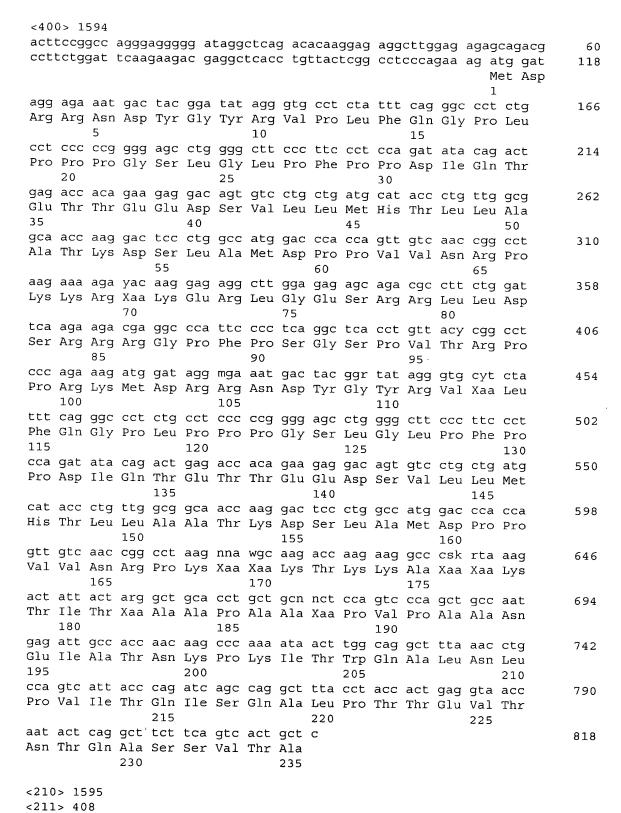
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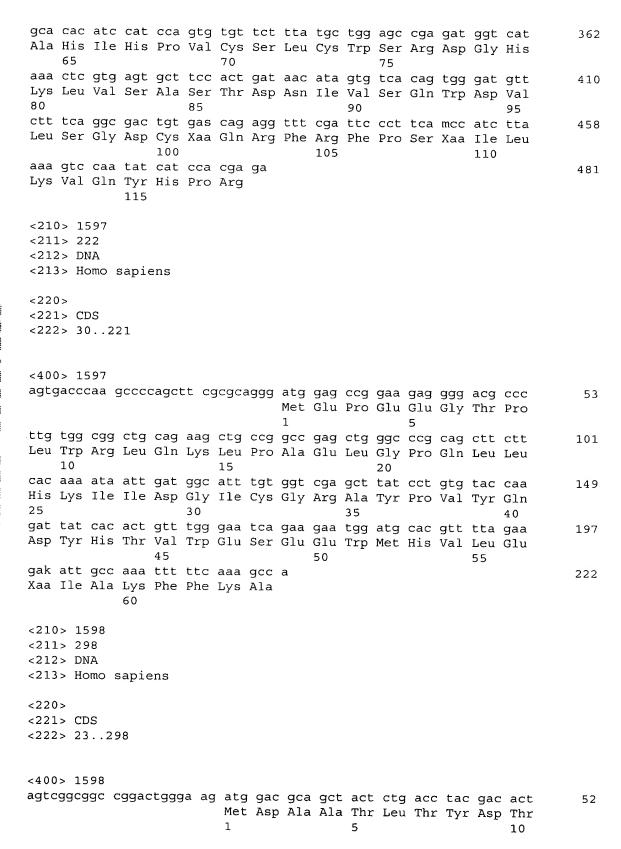


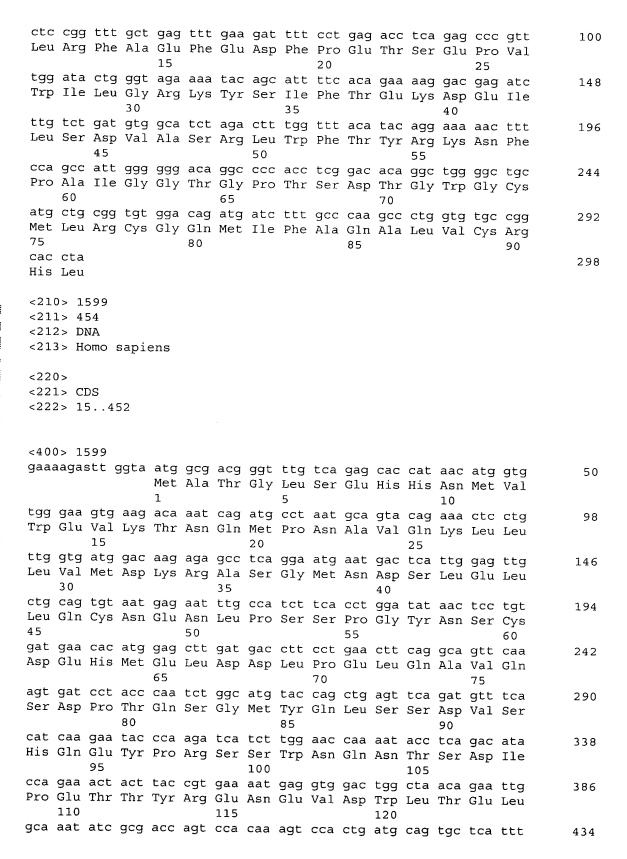
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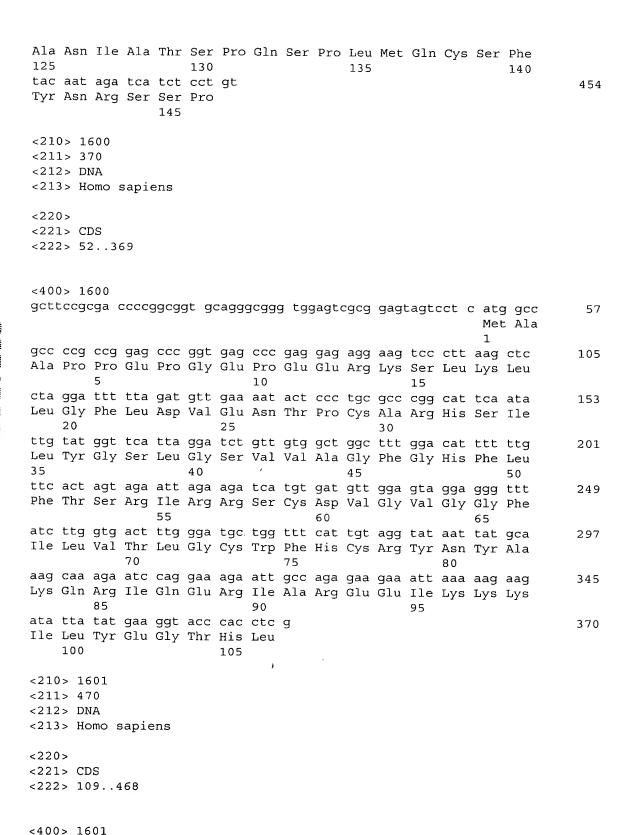
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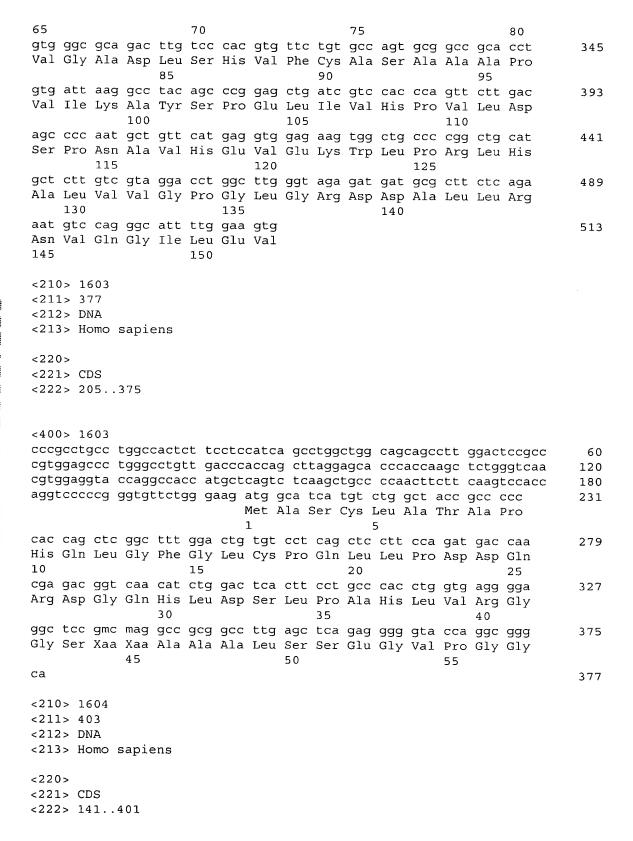






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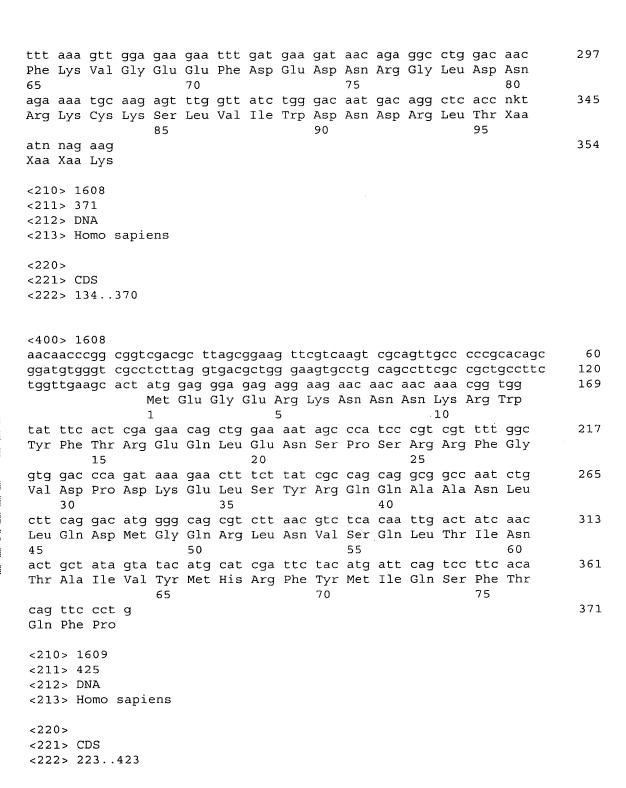
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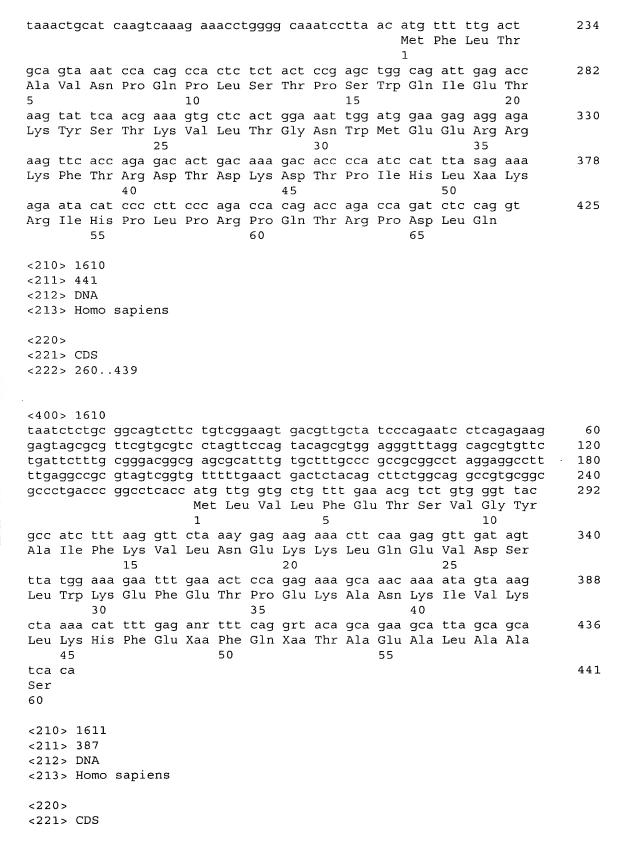


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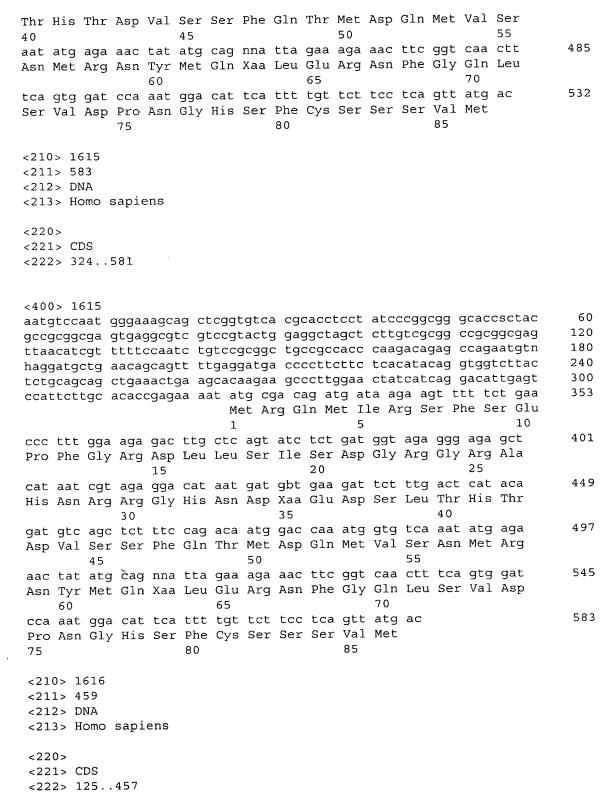




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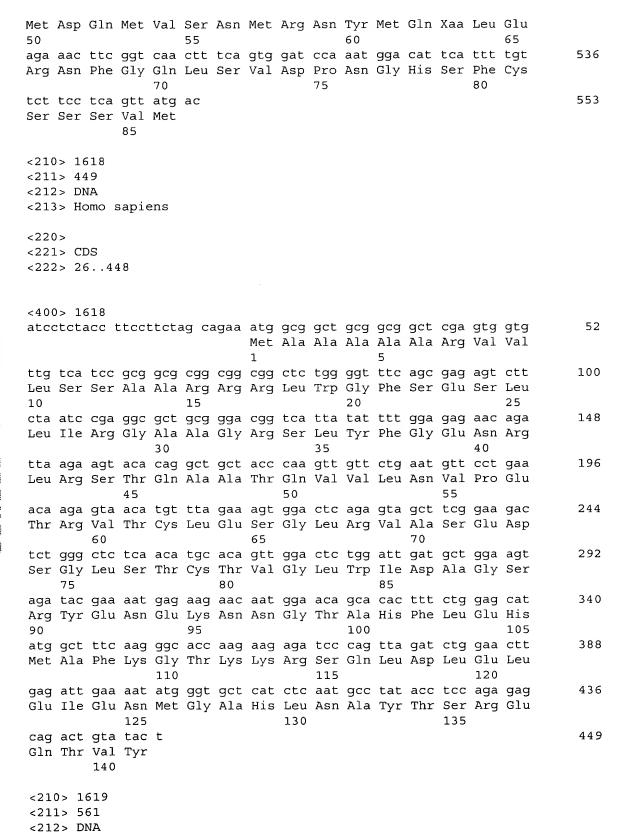
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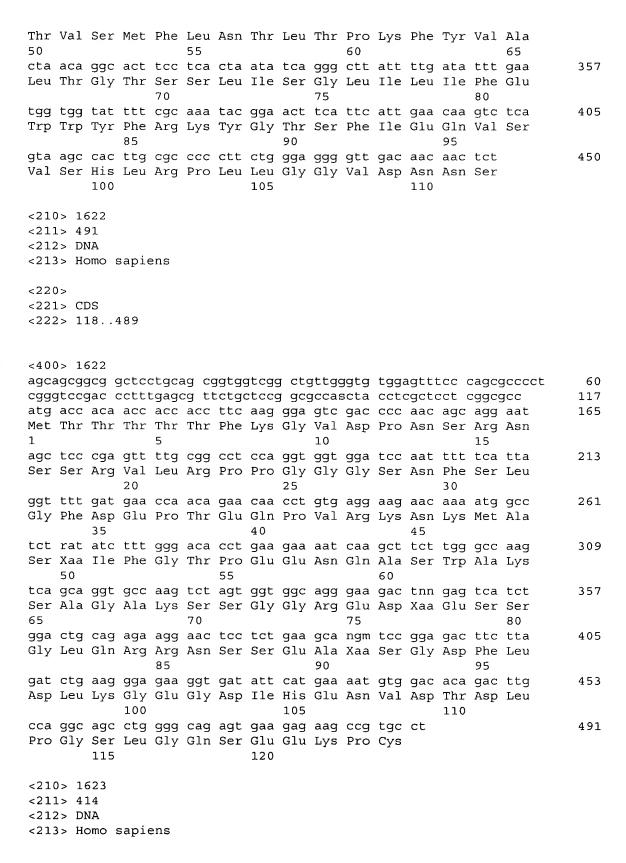






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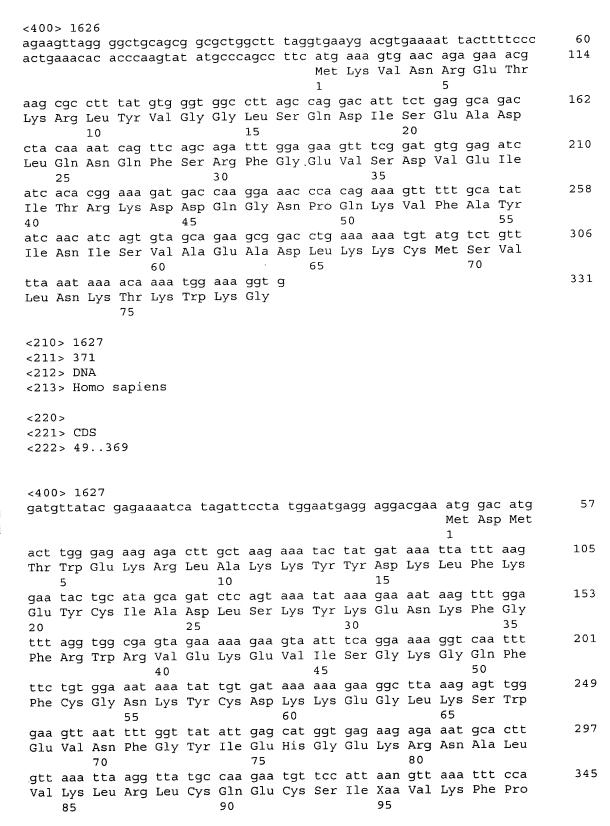


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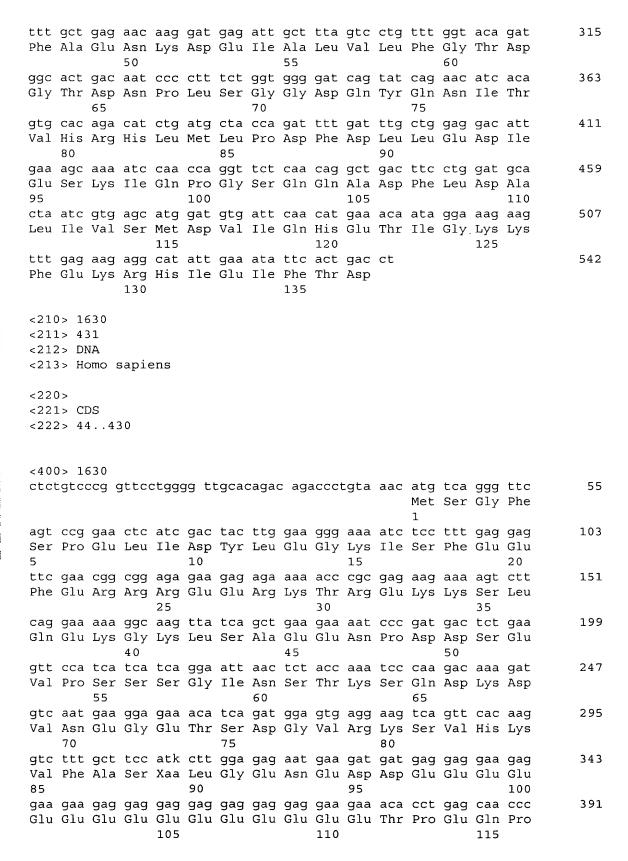
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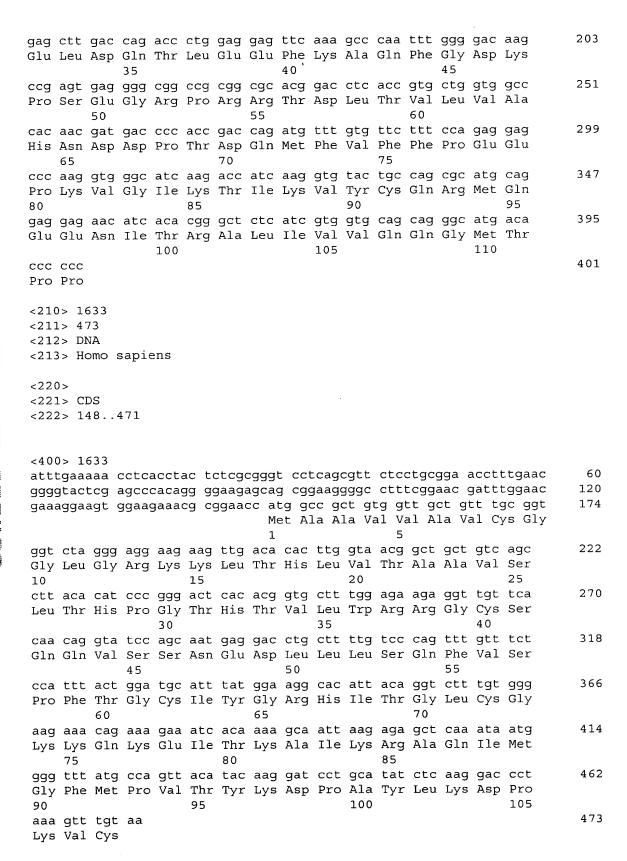
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mwc Xaa	ggc Gly	agg Arg	ctg Leu 85	ggm	tcc Ser	gac Asp	cca Pro	cag Gln 90	aag	aag Lys	acc Thr	gtg Val	tgc Cys 95	att	tac Tyr	404
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gat gag att gcc aag gct cag gtc gct cgg cct ggt ggc gac acg atc Asp Glu Ile Ala Lys Ala Gln Val Ala Arg Pro Gly Gly Asp Thr Ile 5 10 15	166
ttt ggg aag atc atc cgc aag gaa ata cca gcc aaa atc att ttt gag Phe Gly Lys Ile Ile Arg Lys Glu Ile Pro Ala Lys Ile Ile Phe Glu 20 25 30	214
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gtc act ctg ccc ccc cat tac cgc tat ggg atg agc ccc cca ggc tct Val Thr Leu Pro Pro His Tyr Arg Tyr Gly Met Ser Pro Pro Gly Ser  15 20 25	220
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gtt gtg gaa ccc atc tct gat gaa gac tgg tat ctg ttc tgt ggg gac Val Val Glu Pro Ile Ser Asp Glu Asp Trp Tyr Leu Phe Cys Gly Asp 45 50 55 60	316
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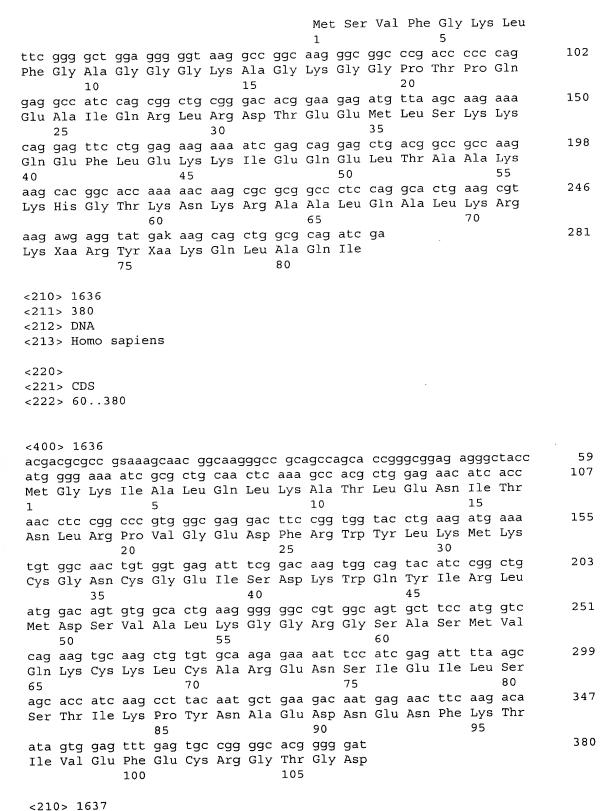
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ggt Gly 10	cta Leu	ggg Gly	agg Arg	aag Lys	aag Lys 15	ttg Leu	aca	cac His	ttg Leu	gta Val 20	acg	gct Ala	gct Ala	gtc Val	agc Ser 25	222
ctt	aca Thr	cat His	ccc Pro	999 Gly 30	act	cac His	acg Thr	gtg Val	ctt Leu 35	tgg	aga Arg	aga Arg	ggt Gly	tgt Cys 40	tca	270
caa Gln	cag Gln	gta Val	tcc Ser 45	agc	aat Asn	gag Glu	gac Asp	ctg Leu 50	ccc	att Ile	tca Ser	atg Met	gaa Glu 55	aat Asn	cct Pro	318
tat Tyr	aaa Lys	gaa Glu 60	cct Pro	ctt Leu	aag Lys	aaa Lys	tgt Cys 65	atc Ile	ttg Leu	tgt Cys	gga Gly	aag Lys 70	cat His	gta Val	gat Asp	366
tat Tyr	aag Lys 75	aat Asn	gta Val	cag Gln	ctt Leu	ttg Leu 80	tcc Ser	cag Gln	ttt Phe	gtt Val	tct Ser 85	cca Pro	ttt Phe	act Thr	gga Gly	414
			gga Gly													462
gaa Glu	atc Ile	aca Thr	aaa Lys	gca Ala 110	att Ile	aag Lys	aga Arg	gct Ala	caa Gln 115	ata Ile	atg Met	Gly 999	ttt Phe	atg Met 120	cca Pro	510
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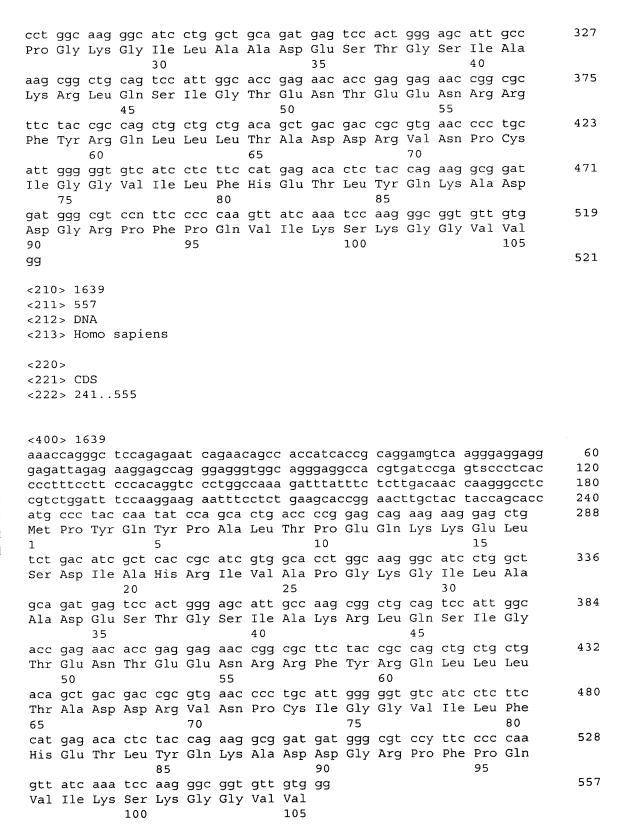
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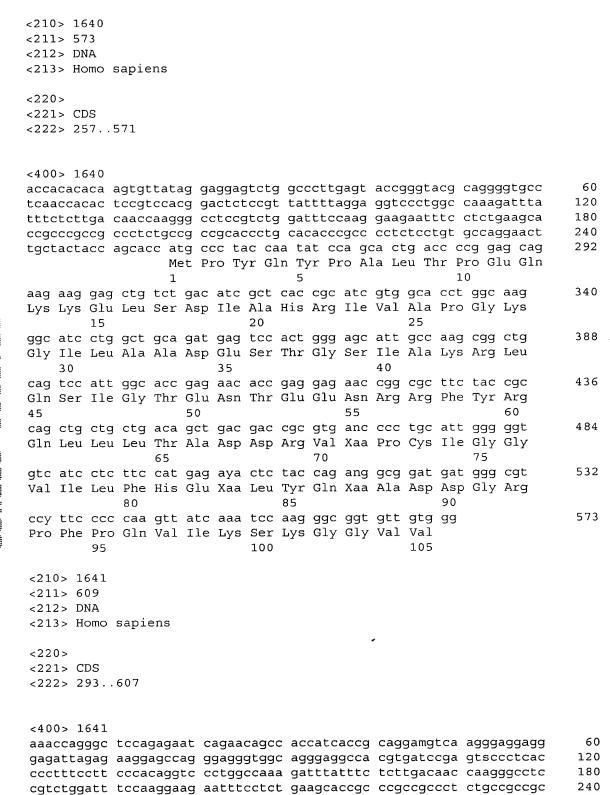
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298

Met Pro

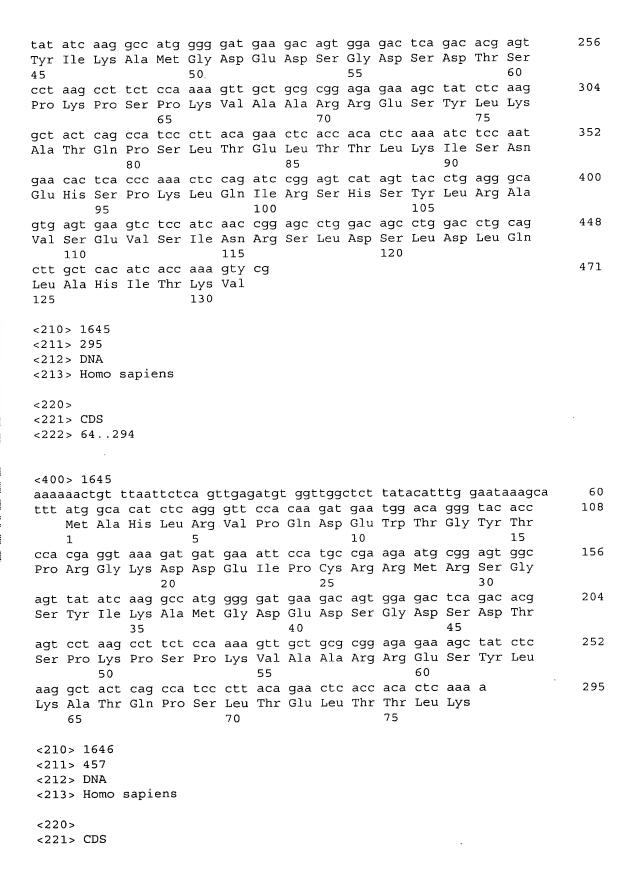
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atc Ile	gct Ala 20	cac	cgc Arg	atc Ile	gtg Val	gca Ala 25	cct	ggc Gly	aag Lys	ggc Gly	atc Ile 30	ctg Leu	gct Ala	gca Ala	gat Asp	394
Glu 35	tcc Ser	Thr	Gly	Ser	Ile 40	Ala	Lys	Arg	Leu	Gln 45	Ser	Ile	Gly	Thr	Glu 50	442
Asn	acc Thr	Glu	Glu	Asn 55	Arg	Arg	Phe	Tyr	Arg 60	Gln	Leu	Leu	Leu	Thr 65	Ala	490
Asp	gac Asp	Arg	Val 70	Xaa	Pro	Cys	Ile	Gly 75	Gly	Val	Ile	Leu	Phe 80	His	Glu	538
aya Xaa	ctc Leu	tac Tyr 85	cag Gln	ang Xaa	gcg Ala	gat Asp	gat Asp 90	ggg Gly	cgt Arg	ccy Pro	ttc Phe	ccc Pro 95	caa Gln	gtt Val	atc Ile	586
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aat Ast 35	tto	att Ile	ttg Leu	gat Asp	gaa Glu 40	ago Ser	cat His	gaa Glu	cga Arg	gta y Val	tto Phe	ago Ser	tct Ser	tca Ser	cag Gln 50	260
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gt Va	t gca l Ala	a gto a Val	att   Ile   70	gga	gaa Glu	atc Ile	gat Asp	gaa Glu 75	ı gaa ı Glı	a aca ı Thi	a gat c Asp	t tct Sei	gcg Ala 80	g ctt a Lei	gat Asp	356
t.t.	a aac	a aat		. caa	a qca	qaa	cct	t tta	aat	tct:	gta	a gca	a			395



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gag gta ctt gaa ctg gca gga aat gca tca aaa gac tta aag gta aag Glu Val Leu Glu Leu Ala Gly Asn Ala Ser Lys Asp Leu Lys Val Lys 25 30 35	453
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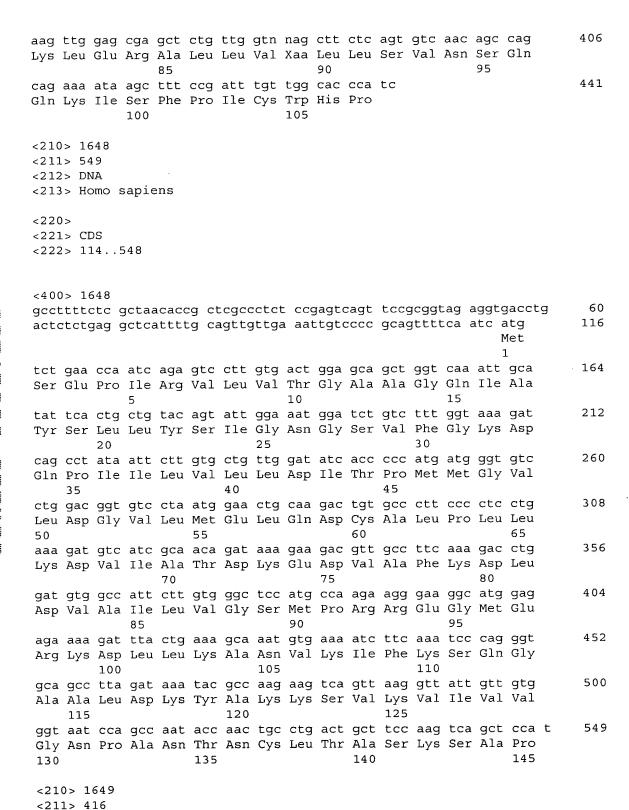


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Val Leu Gln Lys Arg Ala Ala Pro Tyr Val Gln Ala Phe Asp Ser Leu													
5 10 15	222												
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Leu Ala Gly Pro Val Ala Glu Tyr Leu Lys Ile Ser Lys Glu Ile Gly 20 25 30 35													
20 25 30 35 gga gac gtg cag aaa cat gcg gag atg gtc cac aca ggt ttg aag ttg	380												
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40 45 50													
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Glu Arg Ala Leu Leu Val Xaa Leu Leu Ser Val Asn Ser Gln Gln Lys													
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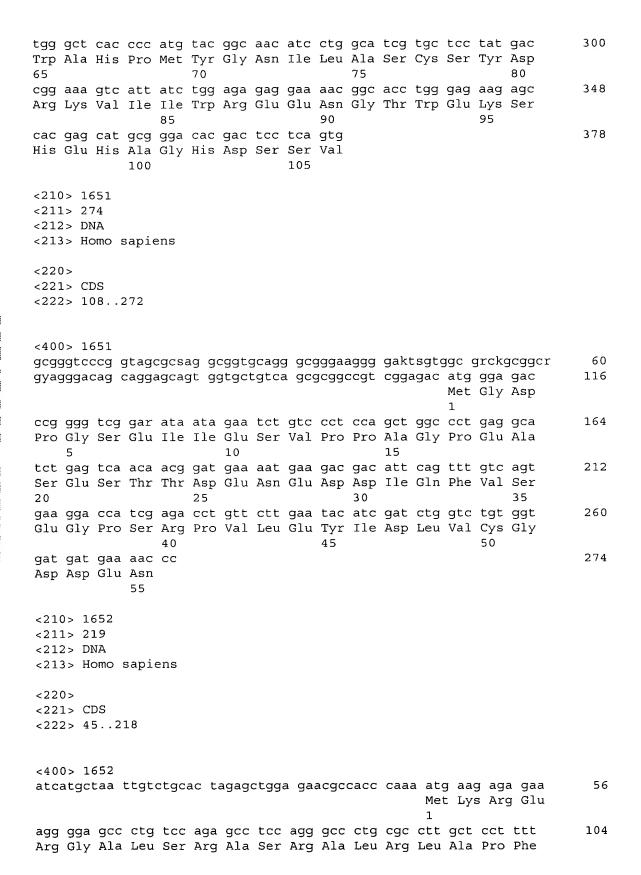
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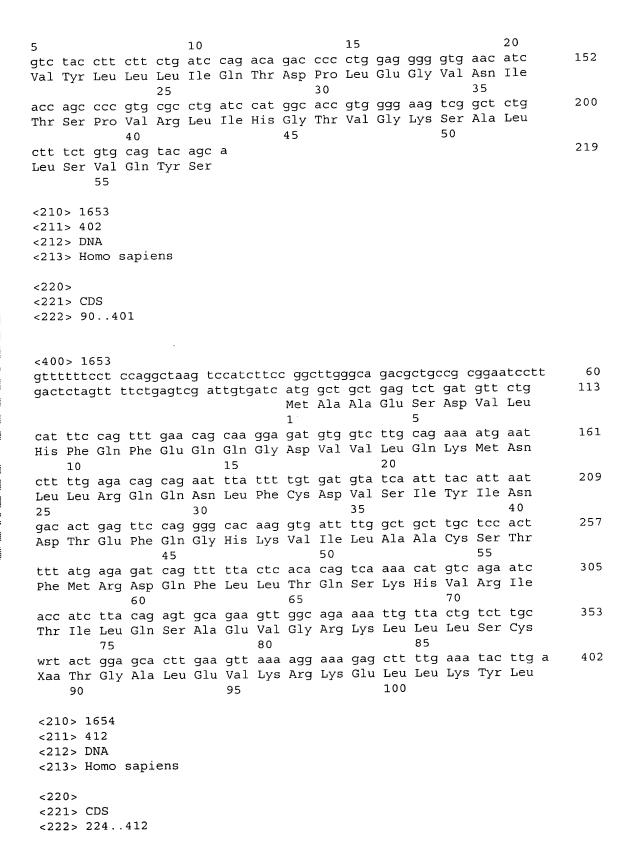


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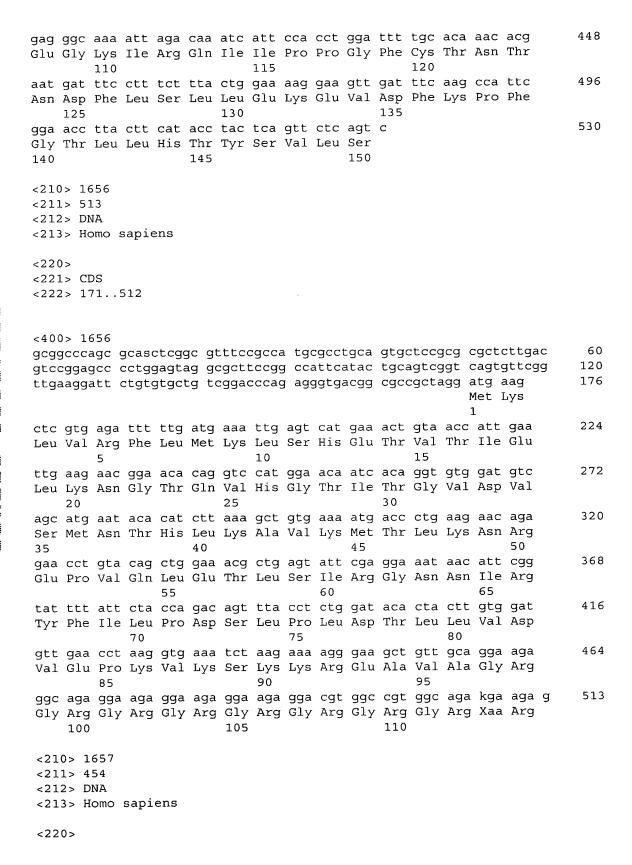
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								gct Ala 20								22
								agc Ser								26
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gcc					tca			cgg Arg		act					tgc	4
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	0> 10															
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gcc gaa Ala Glu 5	gct q Ala	gtt d Val I	Pro 1	aag Lys 10	ttt Phe	gaa Glu	gag Glu	atg Met	ttt Phe 15	gct Ala	agt Ser	aga Arg	ttc Phe	aca Thr 20	283
gaa aat Glu Asn	gac Asp	Lys (	gag	tat	cag Gln	gaa Glu	tac Tyr	ctg Leu 30	aaa Lys	cgc Arg	cct Pro	cct Pro	gag Glu 35	tct Ser	331
cct cca Pro Pro	Ile	gtt g	gag	gaa Glu	tgg Trp	aat Asn	agc Ser 45	aga Arg	gct Ala	ggt Gly	Gly 999	aac Asn 50	aaa Lys	gaa Glu	379
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aac acc Asn Thr	aac Asn 30	aca	gca Ala	att Ile	gaa Glu	cta Leu 35	aaa Lys	tta Leu	gtt Val	cgt Arg	ttt Phe 40	cct Pro	gaa Glu	gat Asp	208
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ttt ggg Phe Gly	gat Asp	gat Asp	gaa Glu	act Thr 65	gct	ttt Phe	ggt Gly	tac Tyr	aag Lys 70	ggt Gly	cta Leu	aag Lys	atc Ile	ctg Leu 75	304
tta tac Leu Tyr	tat Tyr	att Ile	gct Ala 80	ggt	agc Ser	ctg Leu	tca Ser	aca Thr 85	atg	ttc Phe	cgt Arg	gtt Val	gaa Glu 90	tat Tyr	352
gca tct Ala Ser	aaa Lys	gtt Val 95	gat	gag Glu	aac Asn	ttt Phe	gac Asp 100	tgt Cys	gt <i>a</i> Val	gag Glu	nna Xaa	gat Asp 105	gat Asp	gtt Val	400



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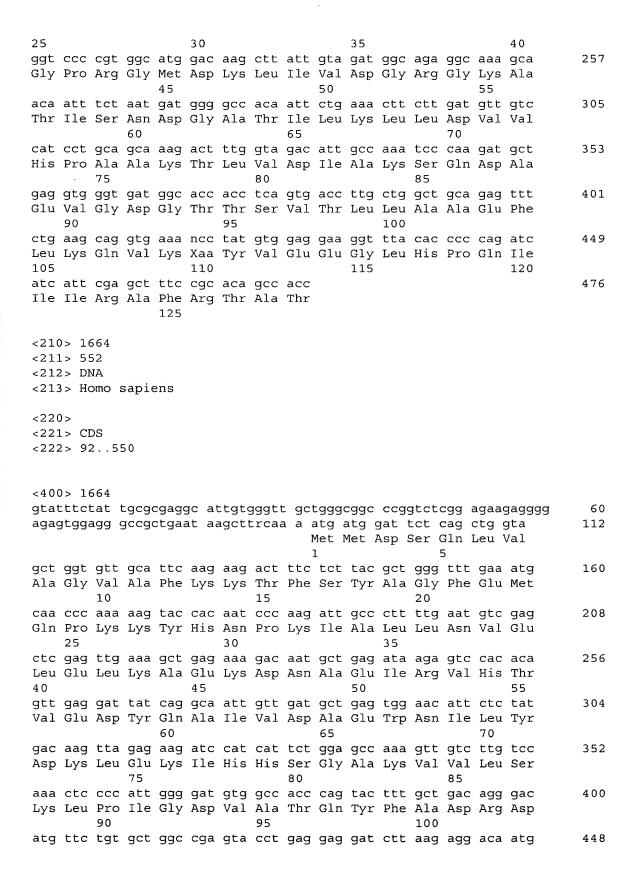
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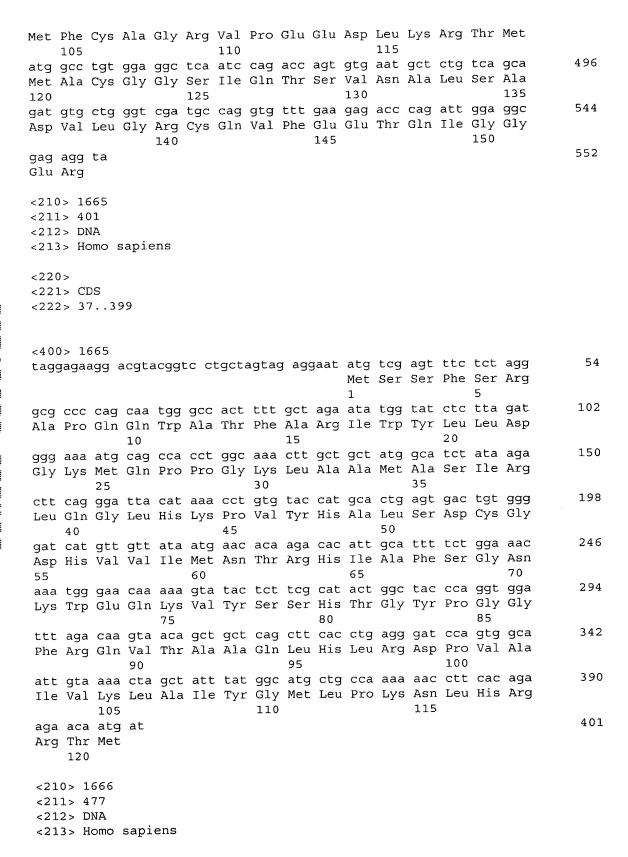




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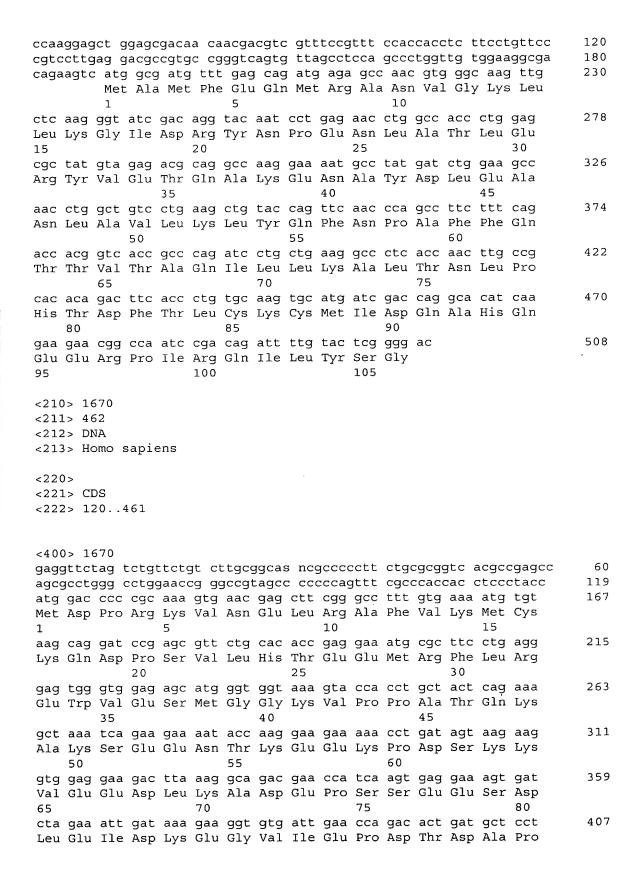




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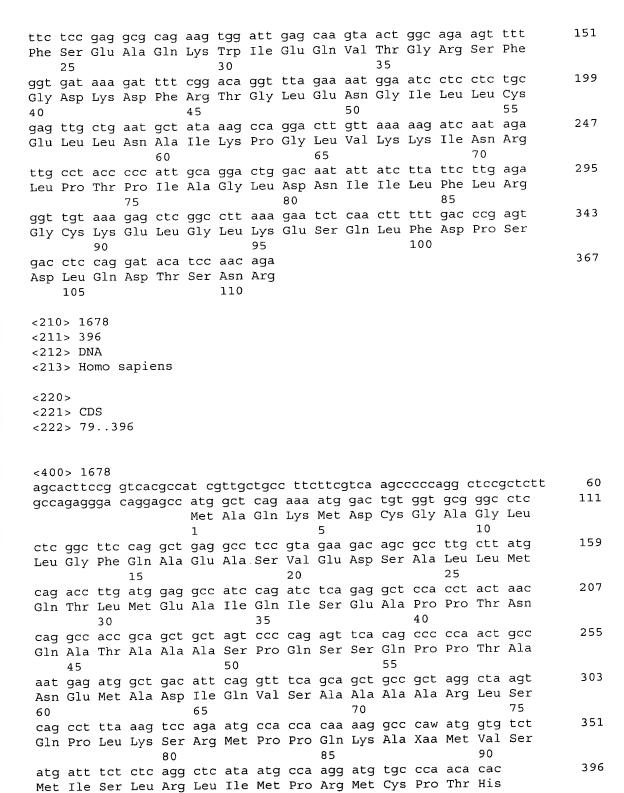


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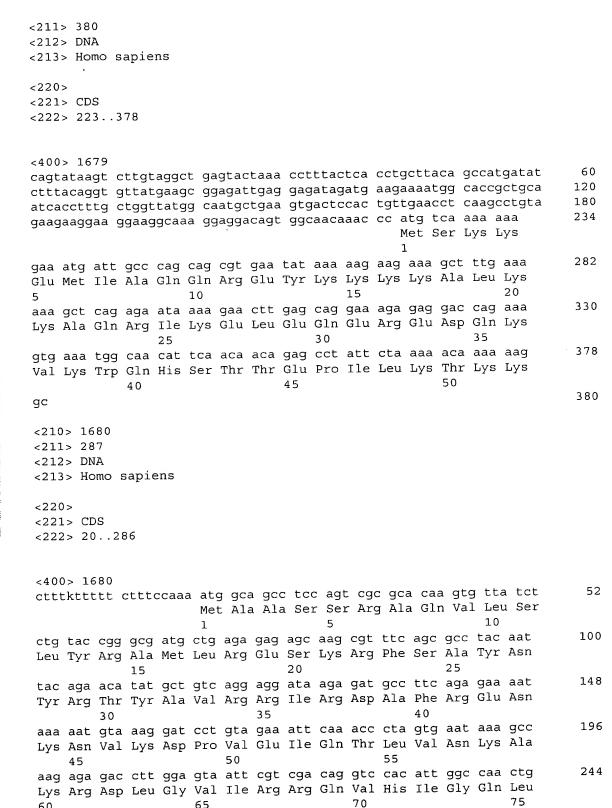
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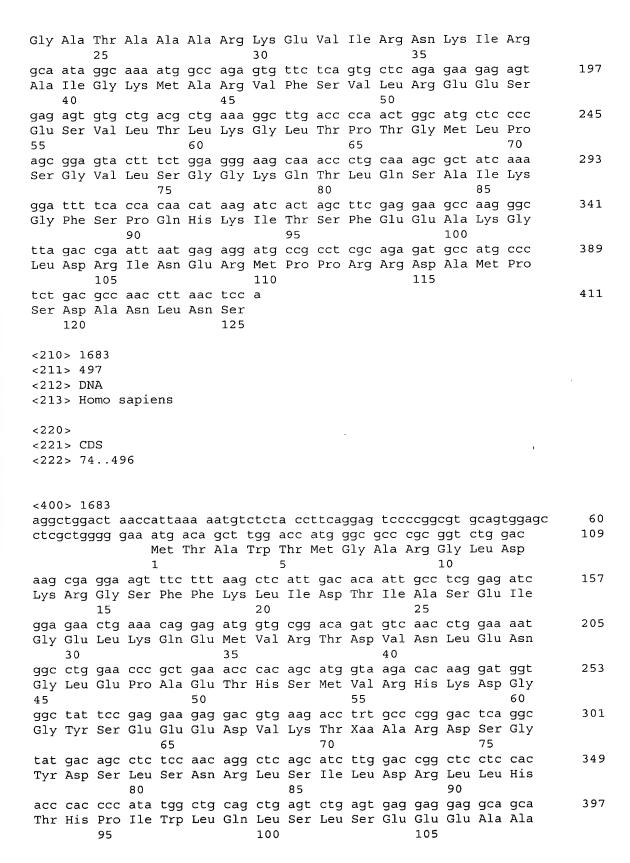
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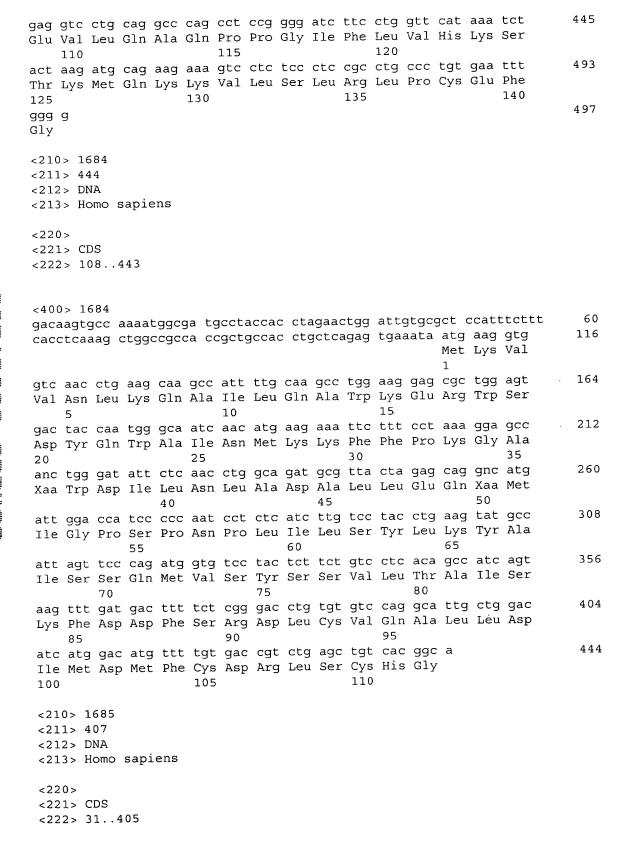


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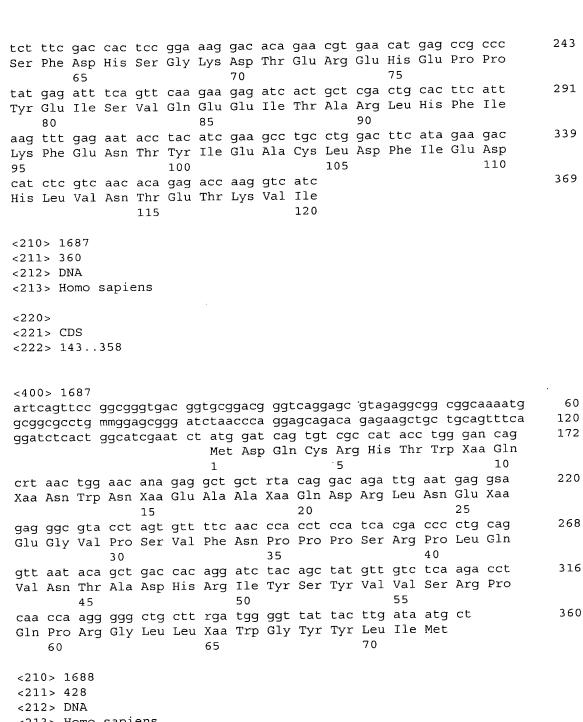
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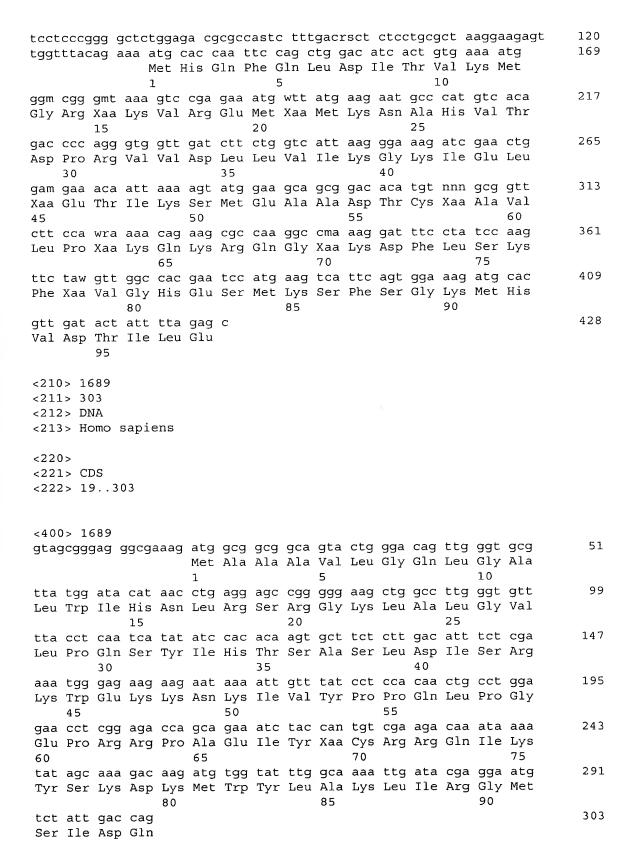
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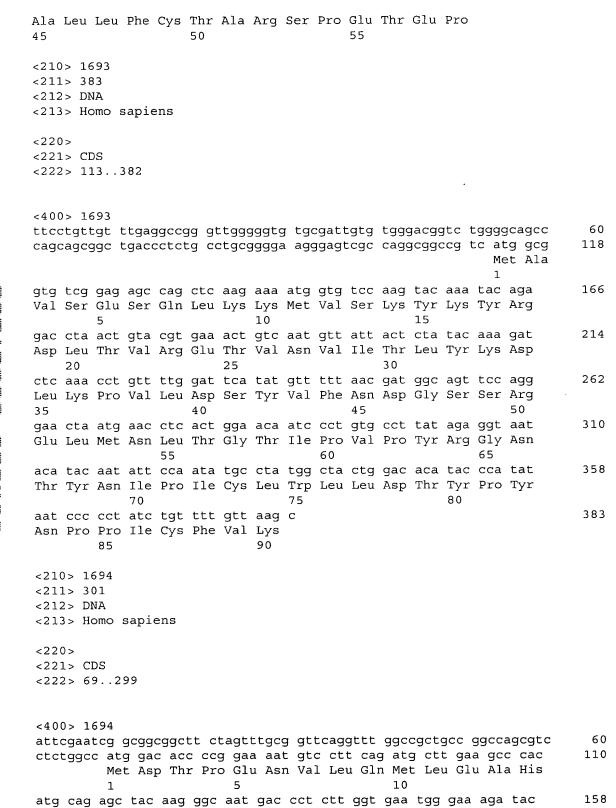
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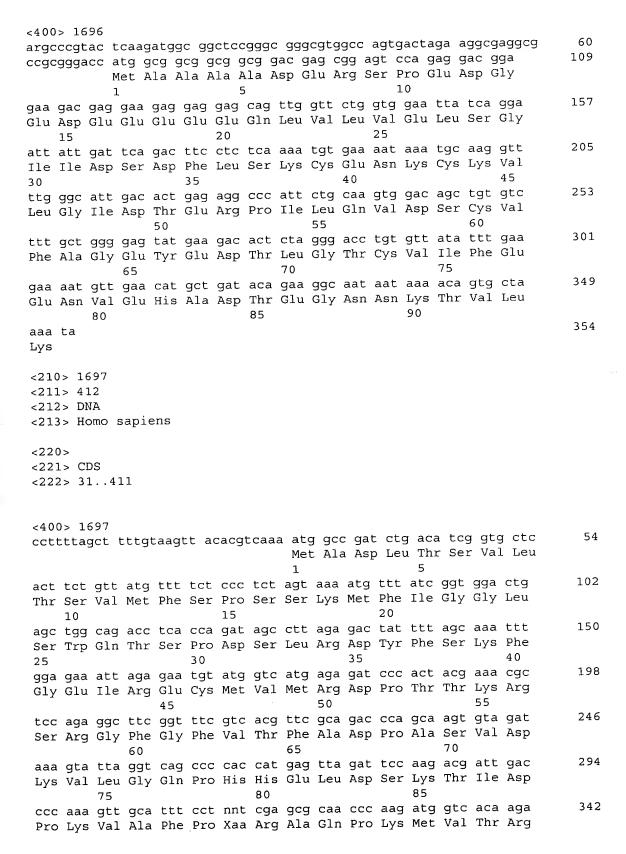
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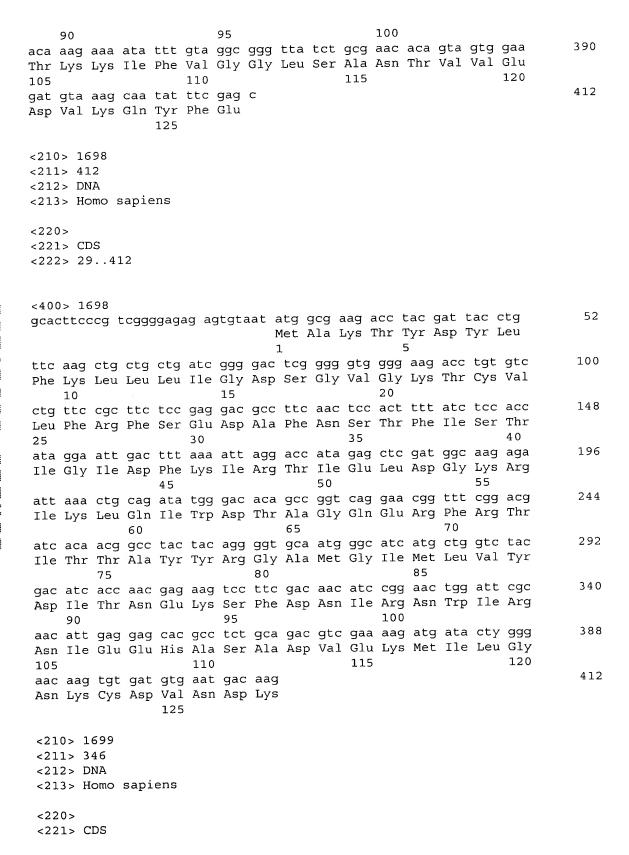
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Asp Ile Pro Val Glu His Gly Ser Met Ala Ala Asp Arg Gln Pro Pro	
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Leu Ser Ala Pro Ala Ser Ala Leu Arg Thr Ala Val Pro Xaa Met Ser	
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Pro Tyr Gln Ala Ala Thr Gly Pro Ser Ser Ala	Pro Ser Ala Pro Pro	
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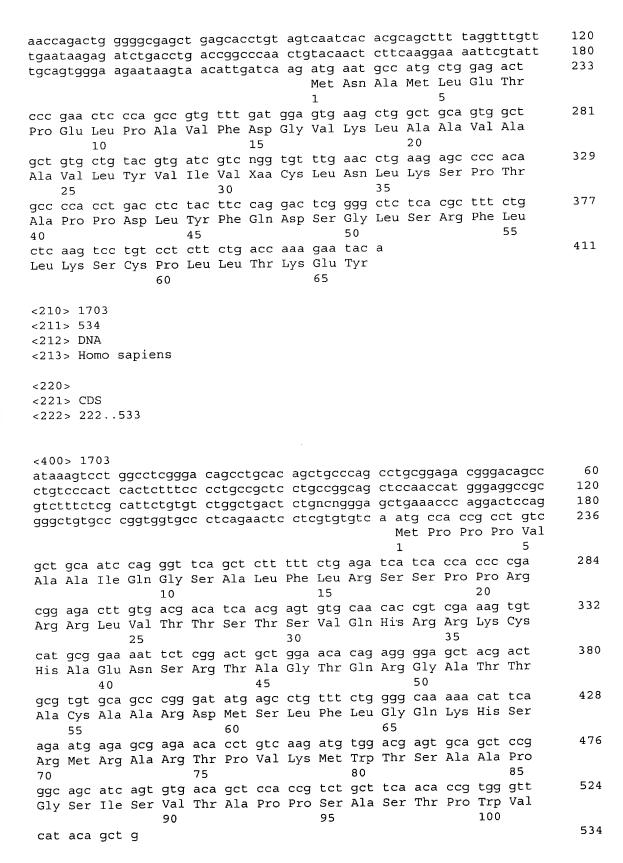




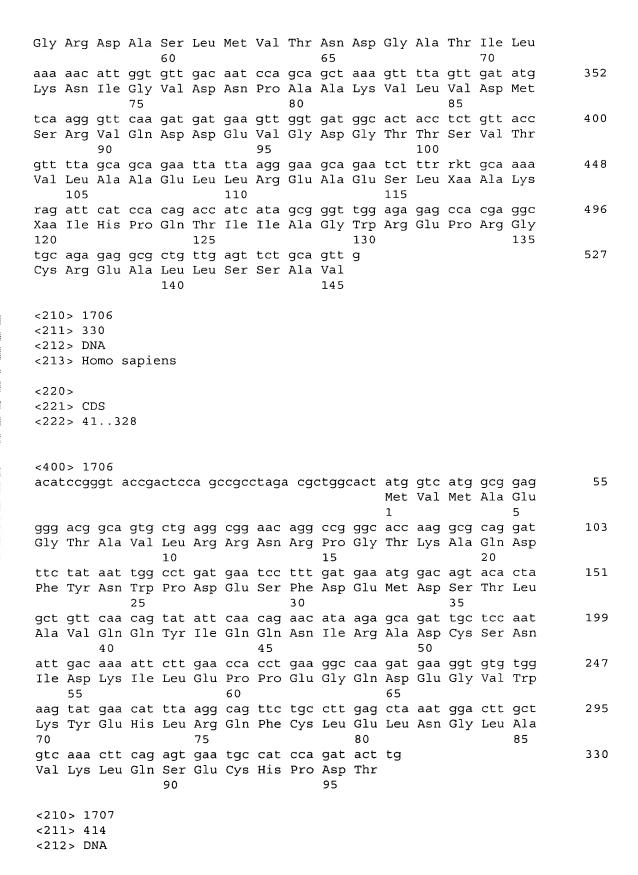
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gacc			-5-5	- 55			<i></i>		Met	Ala	Ser	Leu	Ser	Leu	Ala		
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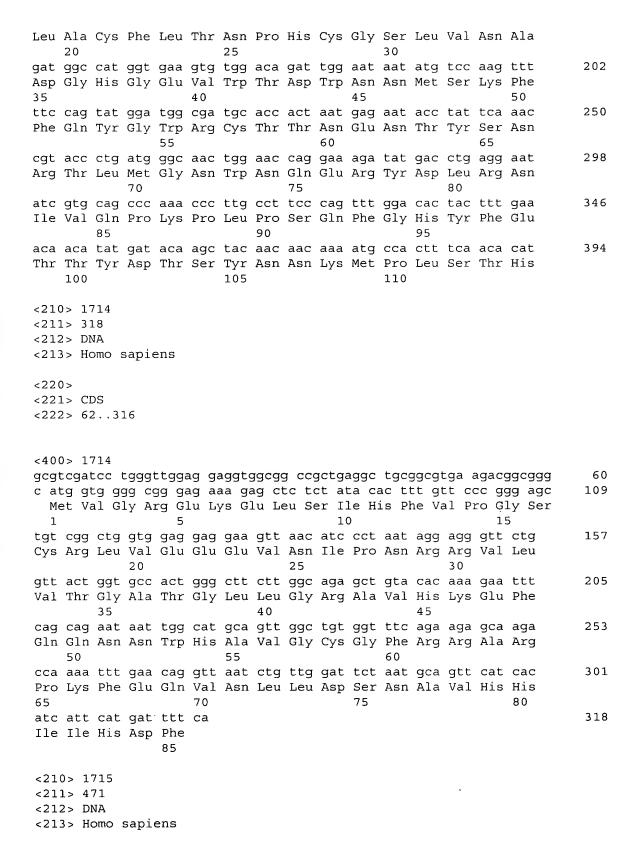
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acattgtggg g cagagcacgg t actctggggt g	ttcccata ctcagagg acggtggd att ctc	ag gg gaa tg ccc tg	geggegatgegteag	cgag: gaag: gtgg: gga	a tca c cti c tci gaa	agcci tgggg tcttg	teet gttt ggee agg	gtc cta ctc	tcat aaat ctga cag	ctg tgg a at Me 1 aca	gaag aagt g gt t Va tcc	accacc gaatgg a ctc l Leu caa	120 180
cagagcacgg to actctggggt ccccatggtg actctgggtg accccatggtg accc	etcccata etcagagg acggtgg att cto Ile Leo	aag gg gaa tg ccc tg c aag l Lys	gcgggggtcaggtcag	cgag gaag gtgg gga Gly ctt	a toa c cti c toi gaa Glu gac	agect tgggg tetts gtt Val	ecct gttt ggcc agg Arg	gtc cta ctc cct Pro 15 ccg	tcat aaat ctga cag Gln cca	ctg tgg a at Me 1 aca Thr	gaag aagt g gt t Va tcc Ser	accacc gaatgg a ctc l Leu caa Gln ttg	120 180 237
acattgtggg g cagagcacgg t actctggggt g ccccatggtg a cac atc agc His Ile Ser 5 gcc ttc tcc	att ctores at the second secon	aag ggaa tgaa tgaa tgaa tgaa tgaa tgaa	act Thr 10 aaa Lys	cgag gaag gtgg gga Gly ctt Leu	gaa Glu gac Asp	gtt Val att Ile ytal	agg Arg ttt Phe 30	cta ctc cct Pro 15 ccg Pro	cag Gln cca Pro	ctg tgg a at Me 1 aca Thr ggg Gly	gaag aagt g gt t Va tcc Ser ttt Phe	accacc gaatgg a ctc l Leu caa Gln ttg Leu 35 gta	120 180 237 285
cagagcacgg to actctggggt ccccatggtg actctgggtg accccatggtg acccatggtg accccatggtg acccat accat a	att ctores at the case of the	aag ggaa tgaa tgaa tgaa tgaa tgaa tgaa	act Thr 10 aaa Lys	cgag gaag gtgg gga Gly ctt Leu	gaa Glu gac Asp	gtt Val att Ile	agg Arg ttt Phe 30	cta ctc cct Pro 15 ccg Pro	cag Gln cca Pro	ctg tgg a at Me 1 aca Thr ggg Gly	gaag aagt g gt t Va tcc Ser ttt Phe tgg	accacc gaatgg a ctc l Leu caa Gln ttg Leu 35 gta	120 180 237 285
cagagcacgg to actctggggt coccatggtg actctggggt coccatggtg accarding to a second	att cto Ile Len ttt cai Phe His aat gga Asn Gly 40 tcg Ser 55	aag ggaa tgaa tgaa tgaa tgaa tgaa tgaa	act Thr 10 aaa Lys	cgag gaag gtgg gga Gly ctt Leu	gaa Glu gac Asp	gtt Val att Ile ytal	agg Arg ttt Phe 30	cta ctc cct Pro 15 ccg Pro	cag Gln cca Pro	ctg tgg a at Me 1 aca Thr ggg Gly	gaag aagt g gt t Va tcc Ser ttt Phe tgg	accacc gaatgg a ctc l Leu caa Gln ttg Leu 35 gta	120 180 237 285 333



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Met	
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Thr Ile Gly Glu Leu Leu Ala Pro Ala Ala Pro Phe Asp Lys Lys Cys	
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Gly Arg Glu Asn Trp Thr Val Ala Phe Ala Pro Asp Gly Ser Tyr Phe 35 40 45	
35 40 45 gct tgg tca caa gga cat cgc aca gta aag ctt gtt ccg tgg tcc cag	488
Ala Trp Ser Gln Gly His Arg Thr Val Lys Leu Val Pro Trp Ser Gln	
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Met Met Leu Pro Leu Gln Gly Ala Gln Met Leu Gln Met Leu	
1 5 10	
gag aaa too ttg agg aag ago oto ooa goa too tta aag gtt tat gga	276
Glu Lys Ser Leu Arg Lys Ser Leu Pro Ala Ser Leu Lys Val Tyr Gly	
15 20 25 30 act gtc ttt cac ata aac cat gga aat cca ttc aat ctg aag gct gtg	324
Thr Val Phe His Ile Asn His Gly Asn Pro Phe Asn Leu Lys Ala Val	
35 40 45	
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Val Asp Lys Trp Pro Asp Phe Asn Thr Val Val Cys Pro Gln Glu	
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Gln	Asp	Met 65	Thr	Asp	Asp	Leu	Asp	His	Tyr	Thr	Asn	Thr 75	Tyr	Gln	Ile	
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	_		-	-	cgc Arg	_		_		_		_	_			102
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					aag Lys						-		-	_	g	244
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gag	gaa Glu	gta Val	ctt Leu	tct Ser 70	999	gtc Val	tta Leu	gat Asp	aca Thr 75	gaa	cta Leu	cga Arg	tat Tyr	aag Lys 80	сса	298
gac Asp	ttg Leu	aaa Lys	gag Glu 85	ggc	tcc Ser	aga Arg	aaa Lys	agt Ser 90	aga	tgc Cys	gta Val	tct Ser	gta Val 95	caa Gln	aca Thr	346
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agt:	actt tcc	ggg (cgg Arg	aag	Met A L cgt	Arg (In I	ero i aca Thr	Tyr 1 5 ttc	cct	Ser S	Ser gac	Arg (: tgc	Glu 10 gtc	Val gcg	Ser atg	49 97
tct Ser	tcc Ser ggc	cgg (aag Lys tgt	Met A L cgt Arg gtg	tgg Trp gag	agg Arg aag	aca Thr 20 gaa	Tyr 1 5 ttc Phe tat	cct Pro	gtt Val aac	gac Asp	tgc Cys 25 ggt	Glu 10 gtc Val aat	Val gcg Ala acc	ser atg Met tgc	
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tct Ser tgt Cys ctg Leu 45	tcc Ser ggc Gly 30 gag Glu	cgg Arg 15 gac Asp	aag Lys tgt Cys gga Gly	Met A L cgt Arg gtg Val tct Ser	tgg Trp gag Glu ttc Phe 50 atg	agg Arg aag Lys 35 tta Leu	aca Thr 20 gaa Glu ctg Leu	Tyr 155 ttc Phe tat Tyr aac Asn	cct Pro ccc Pro ttt Phe	gtt Val aac Asn aca Thr 55	gac Asp cgg Arg 40 ggc Gly	tgc Cys 25 ggt Gly tgt Cys	Glu 10 gtc Val aat Asn gca Ala	yal gcg Ala acc Thr gtg Val	atg Met tgc Cys tgc Cys 60 gaa	97 145
tct Ser tgt Cys ctg Leu 45 agt Ser	tcc ser ggc Gly 30 gag Glu aag Lys	cgg Arg 15 gac Asp aat Asn	aag Lys tgt Cys gga Gly gat Asp	Met A l cgt Arg gtg Val tct Ser ttt Phe 65 ata	tgg Trp gag Glu ttc Phe 50 atg Met	agg Arg aag Lys 35 tta Leu ctg Leu	aca Thr 20 gaa Glu ctg Leu atc Ile	Tyr 155 ttc Phe tat Tyr aac Asn aca Thr	cct Pro ccc Pro ttt Phe aac Asn 70 cat	gtt Val aac Asn aca Thr 55 aaa Lys	gac Asp cgg Arg 40 ggc Gly tcc Ser	tgc Cys 25 ggt Gly tgt Cys ttg Leu	Glu 10 gtc Val aat Asn gca Ala Lys aat	gcg Ala acc Thr gtg Val gaa Glu 75 tgt	atg Met tgc Cys tgc Cys 60 gaa Glu	97 145 193
tct Ser tgt Cys ctg Leu 45 agt Ser gat Asp	tcc ser ggc Gly 30 gag Glu aag Lys gga Gly	cgg Arg 15 gac Asp aat Asn cgg Arg	aag Lys tgt Cys gga Gly gat Asp gaa Glu 80	Met A l cgt Arg gtg Val tct Ser ttt Phe 65 ata Ile aga	tgg Trp gag Glu ttc Phe 50 atg Met Val cat	agg Arg aag Lys 35 tta Leu ctg Leu acc Thr	aca Thr 20 gaa Glu ctg Leu atc Ile tat Tyr	Tyr 155 ttc Phe tat Tyr aac Asn aca Thr gat Asp aca Thr	cct Pro ccc Pro ttt Phe aac Asn 70 cat His	gtt Val aac Asn aca Thr 55 aaa Lys ttg Leu	gac Asp cgg Arg 40 ggc Gly tcc Ser tgt	tgc Cys 25 ggt Gly tgt Cys ttg Leu aag Lys	Slu glu glu glu glu glu glu glu glu glu g	yal gcg Ala acc Thr gtg Val gaa Glu 75 tgt Cys	atg Met tgc Cys tgc Cys 60 gaa Glu cat His	97 145 193 241
tct Ser tgt Cys ctg Leu 45 agt Ser gat Asp	tcc ser ggc Gly 30 gag Glu aag Lys gga Gly	cgg Arg 15 gac Asp aat Asn cgg Arg Glu ata Ile 95 tat	aag Lys tgt Cys gga Gly gat Asp gaa Glu 80 gcc Ala	Met A cgt Arg gtg Val tct Ser ttte 65 at le aga Arg	tgg Trp gag Glu ttc Phe 50 atg Met Val cat His	agg Arg aag Lys 35 tta Leu ctg Leu acc Thr gag Glu	aca Thr 20 gaa Glu ctg Leu atc Ile tat Tyr 100 ctg Leu	Tyr 155 ttc Phe tat Tyr aac Asn aca Thr Asp aca Thr tta	cct Pro ccc Pro ttt Phe aac Asn 70 cat His ttc Phe tgc	gtt Val aac Asn aca Thr 55 aaa Lys ttg Leu agt Ser	gac Asp cgg Arg 40 ggc Gly tcc Ser tgt Cys atc	tgc Cys 25 ggt Gly tgt Cys ttg Leu aag Lys atg Met 105 gcg	Slu glu glu glu glu glu glu glu glu glu g	yal gcg Ala acc Thr gtg Val gaa Glu 75 tgt Cys gaa Glu ata	atg Met tgc Cys tgc Cys 60 gaa Glu cat His	97 145 193 241 289



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gtg acc atg gac cag gaa Val Thr Met Asp Gln Glu 30			206
aga aat gat ctt cga aag Arg Asn Asp Leu Arg Lys 45	Val Leu His Leu Glu		254
aac aag gca aag gaa aat Asn Lys Ala Lys Glu Asn 60 65			302
aga tac ttt ctg gat cac Arg Tyr Phe Leu Asp His 80			350
gat acc cca atc cct gca Asp Thr Pro Ile Pro Ala 95		_	398
cca tca aga tgc tca gag Pro Ser Arg Cys Ser Glu 110			446
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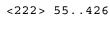
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Lys Arg Pro Pro

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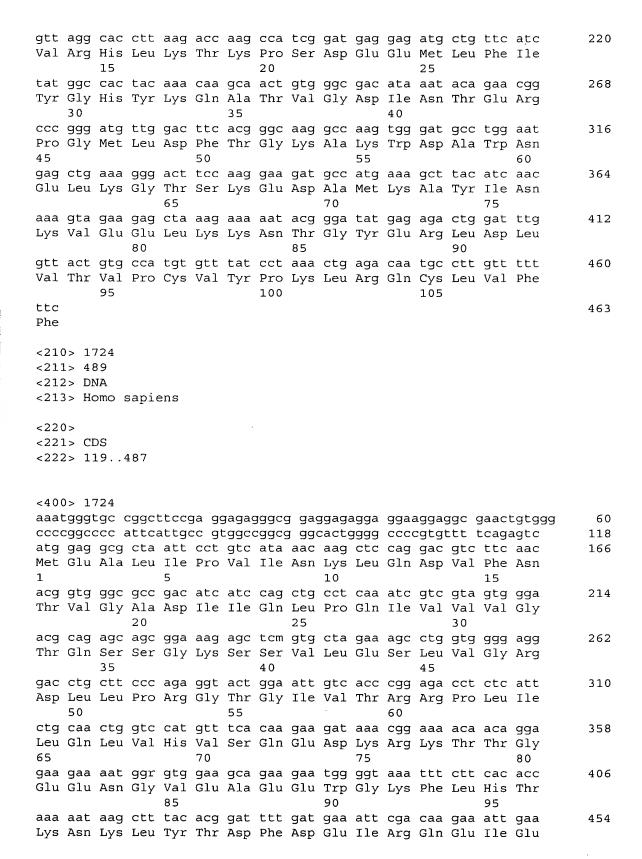
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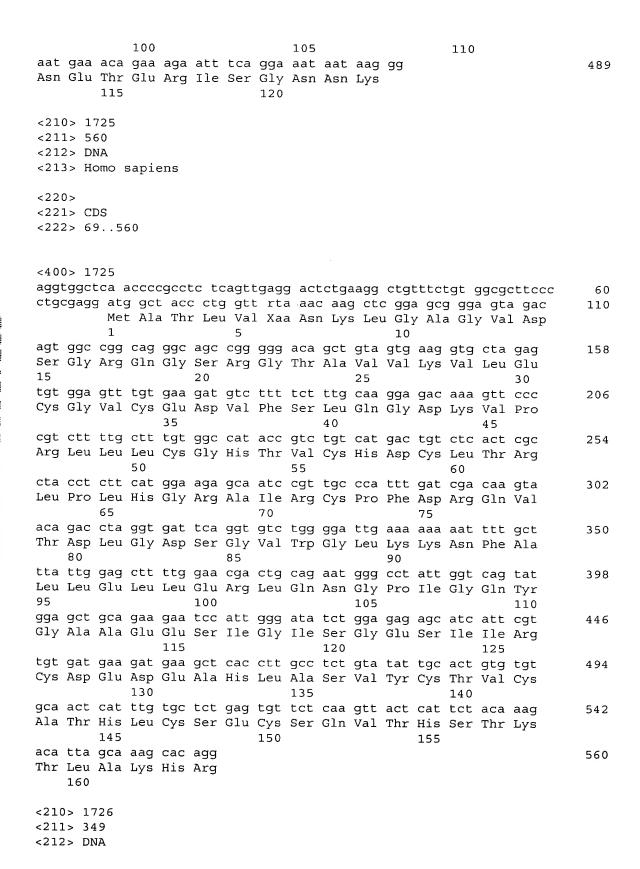


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Lvs	Trn	Δla	Val	Glu	Ara	Thr	Ara	Thr	Ile	Gln	Glv	Leu	Ile	Asp	Phe	
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Tla	Lyc	Luc	Phe	Leu	Lvs	Len	Val	Δla	Ser	Glu	Gln	Leu	Phe	Ile	Tvr	
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135	225	a 2 a	tcc	+++		aat	tac	cca	aac		gaa	att	gga	act		656.
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			ttt												ag	105
Tyr	Glu	Cys	Phe	GIY	ser	GIA	GIY		rrp	Pne	ıyı	116		Ата		
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Leu	Leu	Glu	Leu	Arg	Thr	Asn	Asn	Tyr	Gln	Leu	Ser	Asp	Glu	Leu	Arg	
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Lvs	Asn	Glv	Val	Ğlu	Leu	Thr	Ser	Leu	Arq	Gln	Lys	Val	Ala	Tyr	Leu	
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			Phe													
, and b	פעם	010	40		_, 5			45				7 -	50	4 -	4	
ac+	רפת	gaa		gan	ata	tta	ata		gaa	aat	gad	ato		caq	gca	247
31 -	cay دای	ال ال	. yal	در ال	Val	Len	Len	Ser	رو Glii ·	Asn	Glu	Met	Leu	Gln	Ala	
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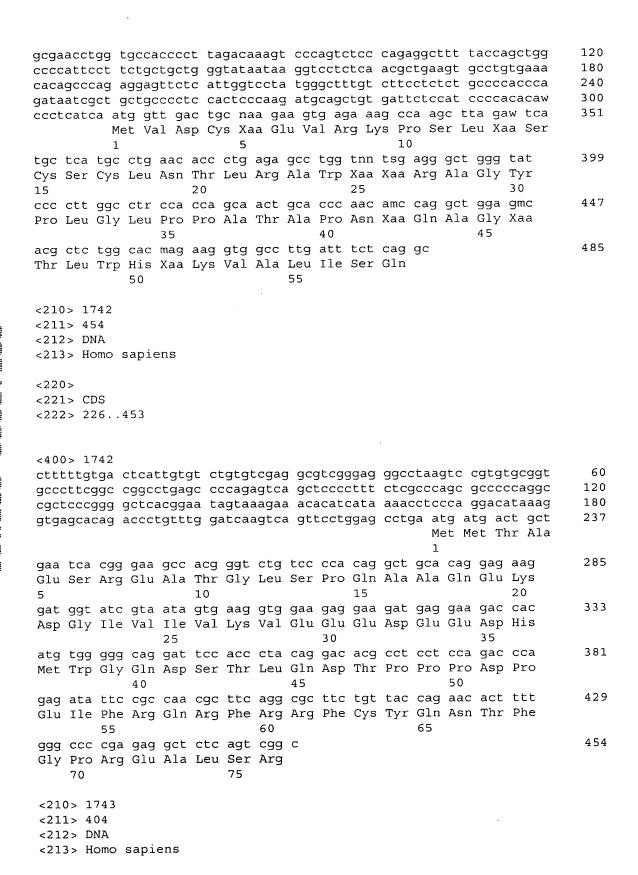
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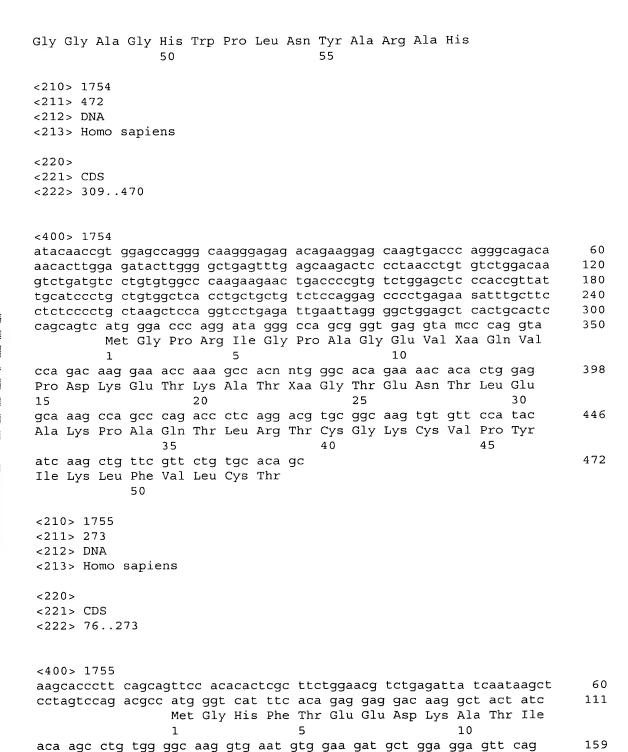
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THE GIV THE GIV THE GIV GIVE ASP ASIL THE THE ASIL THE GIV LYE GIV	

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207

255

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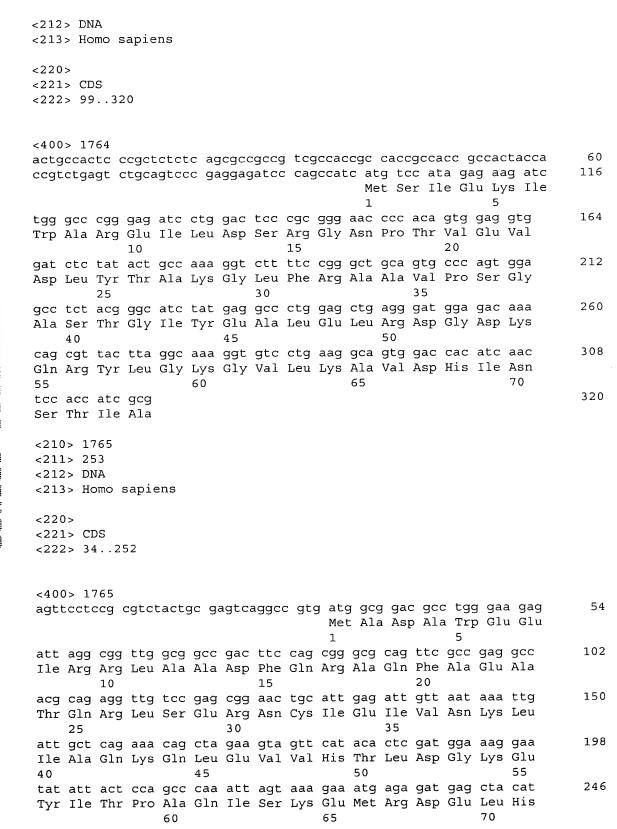
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Met Lys Lys Ala Tyr Gln Asp Met Asp Ile Asp Lys Val Asp Glu Leu 115 atg act gac atc acg Met Thr Asp Ile Thr 130 <2210> 1763 <211> 247 <212> DNA <213> Homo sapiens <220> <222> 50247 <400> 1763 agatetteg tegetetgte agggagacee ttaggcacte eggactaag atg geg geg Met Ala Ala 1 acg gcc agg cgg ggc tgg gga gct gcg gct gtt gcc gcc ggg ctg cgc Thr Ala Arg Arg Gly Trp Gly Ala Ala Ala Val Ala Ala Gly Leu Arg 5 agg cgg ttc tgt cat aag ttg aag aat cca tac acc att aag aaa cag Arg Arg Phe Cys His Lys Leu Lys Asn Pro Tyr Thr Ile Lys Lys Gln 20	Thr	Thr	Asn		Glu	Val	Leu	Arg		Met	Glu	Leu	Ala		Gln	Ser	
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Thr Ala Arg Arg Gly Trp Gly Ala Ala Ala Val Ala Ala Gly Leu Arg 5	ayaı		leg i	-gg L i	LCLG	LC aq	yggag	gacco	ני נני	agge	acte	cgg	acta	Me			58
5																	106
agg cgg ttc tgt cat aag ttg aag aat cca tac acc att aag aaa cag Arg Arg Phe Cys His Lys Leu Lys Asn Pro Tyr Thr Ile Lys Lys Gln 20	Thr		Arg	Arg	Gly	Trp	Gly	Ala	Ala	Ala	Val		Ala	Gly	Leu	Arg	
Arg Arg Phe Cys His Lys Leu Lys Asn Pro Tyr Thr Ile Lys Lys Gln 20 25 30 35 cct ctg cat cag ttt gta caa aga cca ctt ttc cca cta cct gca gcc 2 Pro Leu His Gln Phe Val Gln Arg Pro Leu Phe Pro Leu Pro Ala Ala 40 45 ttt tat cac cca gtg aga tac atg ttt att caa aca caa gat acc 2 Phe Tyr His Pro Val Arg Tyr Met Phe Ile Gln Thr Gln Asp Thr 55 60 65																	
20 25 30 35 cct ctg cat cag ttt gta caa aga cca ctt ttc cca cta cct gca gcc Pro Leu His Gln Phe Val Gln Arg Pro Leu Phe Pro Leu Pro Ala Ala 40 45 50 ttt tat cac cca gtg aga tac atg ttt att caa aca caa gat acc Phe Tyr His Pro Val Arg Tyr Met Phe Ile Gln Thr Gln Asp Thr 55 60 65																	154
cct ctg cat cag ttt gta caa aga cca ctt ttc cca cta cct gca gcc Pro Leu His Gln Phe Val Gln Arg Pro Leu Phe Pro Leu Pro Ala Ala 40 45 50 ttt tat cac cca gtg aga tac atg ttt att caa aca caa gat acc Phe Tyr His Pro Val Arg Tyr Met Phe Ile Gln Thr Gln Asp Thr 55 60 65		Arg	Pne	Cys	HIS		ьеи	гуѕ	ASII	Pro		Thr	тте	гуѕ	ràs		
Pro Leu His Gln Phe Val Gln Arg Pro Leu Phe Pro Leu Pro Ala Ala 40 45 50 ttt tat cac cca gtg aga tac atg ttt att caa aca caa gat acc 2 Phe Tyr His Pro Val Arg Tyr Met Phe Ile Gln Thr Gln Asp Thr 55 60 65		cta	cat	caq	ttt		caa	aga	cca	ctt		сса	cta	cct	gca		202
40 45 50 ttt tat cac cca gtg aga tac atg ttt att caa aca caa gat acc 2 Phe Tyr His Pro Val Arg Tyr Met Phe Ile Gln Thr Gln Asp Thr 55 60 65																	202
Phe Tyr His Pro Val Arg Tyr Met Phe Ile Gln Thr Gln Asp Thr 55 60 65								_									
55 60 65	ttt	tat	cac	cca	gtg	aga	tac	atg	ttt	att	caa	aca	caa	gat	acc		247
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cgc gaa gga gac ctc ctc ttt act gtg gcc aag gac cct atc gtc aat Arg Glu Gly Asp Leu Leu Phe Thr Val Ala Lys Asp Pro Ile Val Asn 20 25 30 35	153
gta tgg tac tct gtg aat ggt gag agg ctg ggc acc tac atg ggc cat Val Trp Tyr Ser Val Asn Gly Glu Arg Leu Gly Thr Tyr Met Gly His 40 45 50	201
acc gga gct gtg tgg tgt gtg gac gct gac tgg gac acc aag cat gtc Thr Gly Ala Val Trp Cys Val Asp Ala Asp Trp Asp Thr Lys His Val	249
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ggt ttt gac ttt ggg ggc aac atc atc atg ttc tcc acg gac aag cag Gly Phe Asp Phe Gly Gly Asn Ile Ile Met Phe Ser Thr Asp Lys Gln 100 105 110 115	393
atg ggc tac cag tgc ttt gtg agc ttt ttt gac ctg cgg gat ccg agc Met Gly Tyr Gln Cys Phe Val Ser Phe Phe Asp Leu Arg Asp Pro Ser 120 125 130	441
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Met Gly Asp 1	
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gag aag gag cgg cta gaa gcg cag acc agg cct ttt gac ctc aag aag Glu Lys Glu Arg Leu Glu Ala Gln Thr Arg Pro Phe Asp Leu Lys Lys 20 25 30 35	213
gat gtc ttc gtg cct gat gac aaa cag gag ttt gtc aag gcc aag atc Asp Val Phe Val Pro Asp Asp Lys Gln Glu Phe Val Lys Ala Lys Ile 40 45 50	261
gtg tct cga gag ggt ggc aaa gtc act gcc gag act gag tat ggc aag Val Ser Arg Glu Gly Gly Lys Val Thr Ala Glu Thr Glu Tyr Gly Lys	309
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gaa gaa tat ttt gct gag aac ttc ggc ggc cca gaa ggg gag ttc cac Glu Glu Tyr Phe Ala Glu Asn Phe Gly Gly Pro Glu Gly Glu Phe His 15 20 25	160
ttc tca gtc ccg cat gca gcc gga gcc tcc aca gac ttc tct tca gcc Phe Ser Val Pro His Ala Ala Gly Ala Ser Thr Asp Phe Ser Ser Ala 30 35 40	208
tcc gct ccc gac cag tca gcg c Ser Ala Pro Asp Gln Ser Ala 45 50	230
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cct ata aag ctc atc tcc aaa caa gca aac aaa gcg aaa cct gca ccg Pro Ile Lys Leu Ile Ser Lys Gln Ala Asn Lys Ala Lys Pro Ala Pro 30 35 40	148
cga act caa aga act ata aac agg atg cct gca aag gct cca cct ggt Arg Thr Gln Arg Thr Ile Asn Arg Met Pro Ala Lys Ala Pro Pro Gly 45 50 55	196
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ggt gag ctg ttt gca aat cag cga aga ttt cct gga cac ctt ttt tgg Gly Glu Leu Phe Ala Asn Gln Arg Arg Phe Pro Gly His Leu Phe Trp 75 80 85 90	292
gac ttt cag ata aac atc tta ggt gaa aag gat gat aca cca gtt cat Asp Phe Gln Ile Asn Ile Leu Gly Glu Lys Asp Asp Thr Pro Val His 95 100 105	340
ttc tgt gac aag tgt gga ttg cct att aaa atc tat ggg aga atg att Phe Cys Asp Lys Cys Gly Leu Pro Ile Lys Ile Tyr Gly Arg Met Ile 110 115 120	388
cca tgc aag cat gtt ttt tgc tat gac tgt gct att tta Pro Cys Lys His Val Phe Cys Tyr Asp Cys Ala Ile Leu 125 130 135	427
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gcc ggg acc tcg cag ctc tac gtg tac cgc ctc aac cgc gac gcc gag Ala Gly Thr Ser Gln Leu Tyr Val Tyr Arg Leu Asn Arg Asp Ala Glu 35 40 45	205
gct ctg acc aag aat gac agg agc aca gag ggg aag gcc cac cgg gag	253



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ctg gag ctc ca Leu Glu Leu Gl 25	ng att aga In Ile Arg	aga gga gcc Arg Gly Ala 30	atg tca Met Ser	gaa gaa Glu Glu 35	aca gta Thr Val	agt 149 Ser
gaa tca cag tt Glu Ser Gln Pr 40		aag aca gca		aga gtg		
cct ctg act to Pro Leu Thr Tr	gg tgn tat		cag atc			
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aga	aac	ttt	aac	tac	agt	ttt	agc	tcc	ctg	att	gcc	tgt	gtg	gca	aac	166
Arg	Asn 5	Phe	Asn	Tyr	Ser	Phe 10	Ser	Ser	Leu	Ile	Ala 15	Cys	Val	Ala	Asn	
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	Asp	Ile	Phe	Ser		Ser	Glu	Thr	Arg		Lys	Phe	Glu	Ser		
20					25					30					35	262
														agc		262
Pile	Arg	IIII	туг	Asp	гуѕ	Asp	iie	1111	45	GIII	ıyı	Pne	ьуѕ	Ser 50	Pne	
aaa	cga	atic	aga		aac	ttc	age	aac		ttc	taa	gca	gca	gat	acc	310
		_	-				_					_	-	Asp	-	310
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Arg	Leu	Gln	Leu	His	Lys	Thr	Glu	Phe	Leu	Gly	Lys	Glu	Met	Lys	Leu	
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Tyr		Ala	Gln	Thr	Leu		Ile	Gly	Ser	Ser		Leu	Ala	Pro	Pro	
	85					90					95					
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Tyr	_	Pro	Val	Asp	Gly	-	Ser	Leu	Leu	Lys	_	Phe	Pro	Leu	His	
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	ьeu	ınr	стХ	Pro	Arg	Cys	Pro	vaı	GIN		vaı	GIÀ	GIN	Trp		
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yaa	ayu	all	999	cca	-	cay	cac	999	aac	(ac	uug	acy	gul	aat	99ª	+ 2 2



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448

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Met	Pro	Thr	Gly	Asp	Phe	Asp	Ser	Lys	Pro	Ser	Trp	Ala	Asp	Gln	Val	
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Glu	Glu	Glu		Glu	Asp	Asp	Lys	Cys	Val	Thr	Ser	Glu	Leu	Leu	Lys	
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GIY	Ile		Leu	Ala	Thr	Gly	Asp	Thr	Ser	Pro	Glu		Glu	Leu	Leu	
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Pro		Ala	Pro	Leu	Pro		Pro	Lys	Glu	Val		Asn	Gly	Asn	Ile	
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	Thr	val	Thr	Glu		гуs	Ile	Asp	Glu		Gly	Lys	Lys	Phe		
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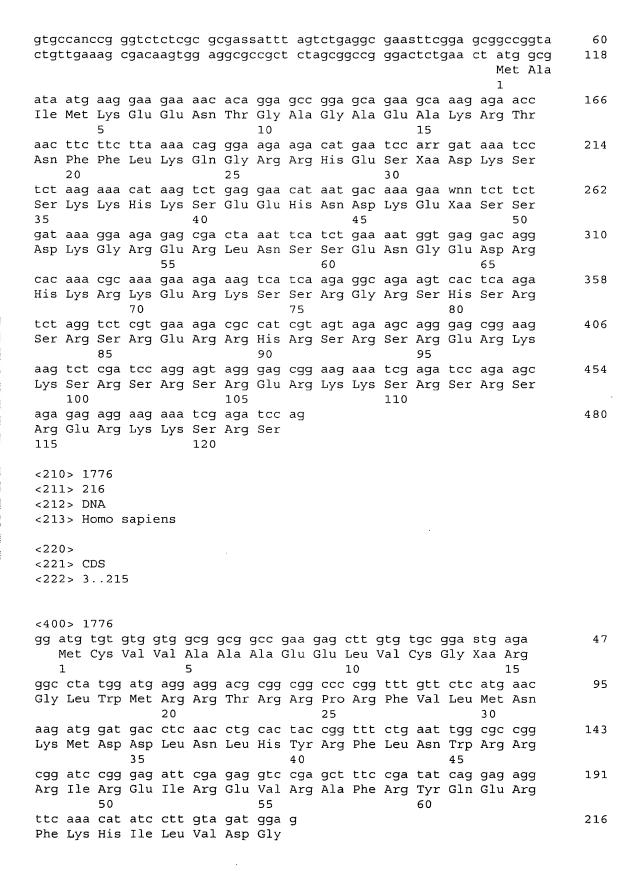
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<400> 1777

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Pro	Pro	Asn	Leu	Thr	Gly	Tyr	Tyr	Arg	Phe	Val	Ser	Gln		Asn	Met		
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Glu	Asp	Tyr	Leu	Gln	Ala	Leu	Asn	Ile	Ser	Leu	Ala	Val	Arg	Lys	Ile		
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atg	acg	gtg	agg	acg	ctc	agc	acc									2	285
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60

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<222> 138..563

<400> 1778

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			ľ	Met A	Asp I	Leu V	/al I	Leu A	Arg V	/al /	Ala A	Asp :	Tyr :	Гуr	
				Ĺ				5				:	10		
ttt tt	t aca	cca	tac	gtg	tat	cca	gcc	aca	tgg	cca	gaa	gat	gac	atc	218
Phe Ph	e Thr	Pro	Tyr	Val	Tyr	Pro	Ala	Thr	Trp	Pro	Glu	Asp	Asp	Ile	
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Phe Ar	g Gln	Ala	Ile	Ser	Leu	Leu	Ile	Val	Thr	Asn	Val	Gly	Ala	Tyr	
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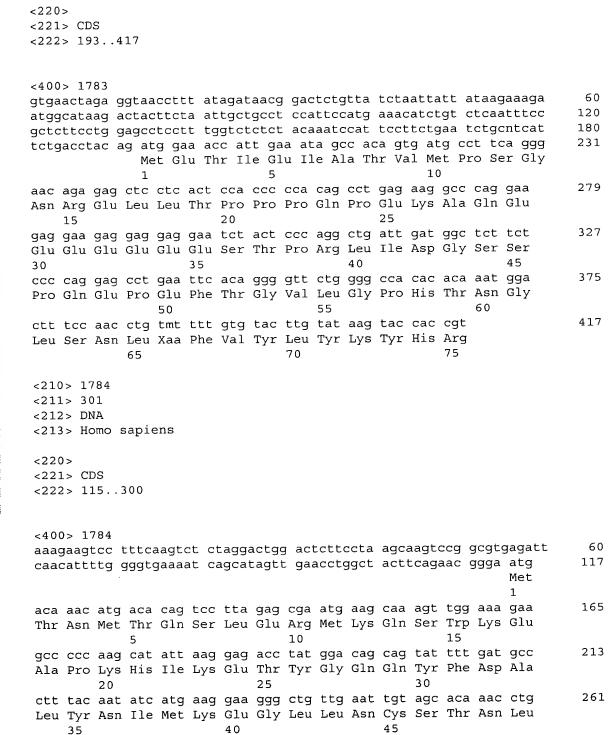
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Giu	116	пуъ	FIIE	80	val	GIII	Ата	ьeu	85	ттр	116	SEL	116	90	IIIL	
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Val A	-	_		-	_			_			_				_	150
		Lou	95			014		100		- 1 -	201	275	105	111.0	1101	
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Asp I																
-		110				-	115					120				
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Cys S	ser	Cys	ser	vaı		TTE	Arg	vaı	Pro		Arg	HIS	Pne	Ala		
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Ala :	TIII	гуѕ	ser	50	гуѕ	гуѕ	1111	гуя	ьуs 55	GIY	Ald	гуя	Giu	ьув 60	THE	
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cca g																201
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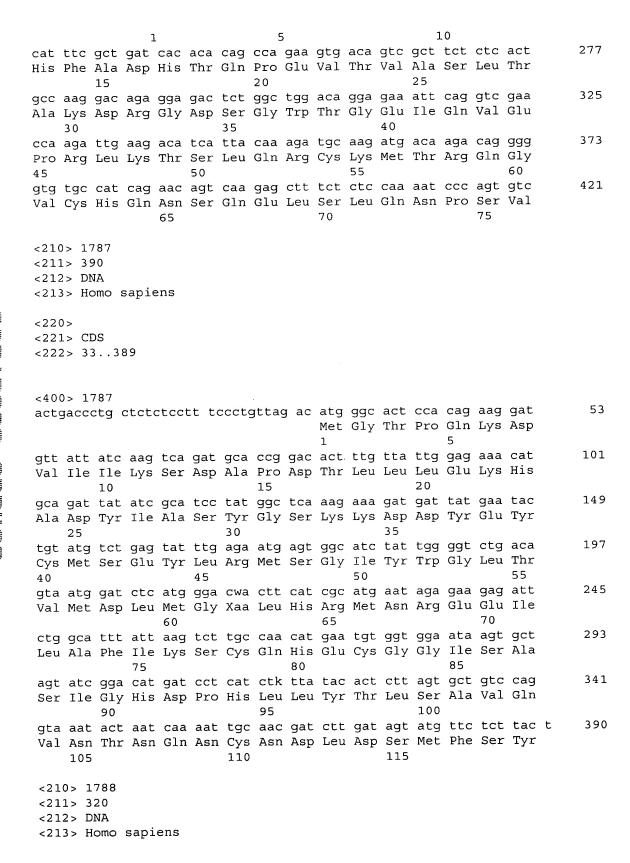


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Arg Gln Gly Asn Met Thr Ala Ala Leu Gln Ala Ala Leu Lys Asn Pro 50 55 60	
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Val Leu Lys Val Leu Ile Ser Phe Lys Ala Asn Asp Ile Glu Lys Ala 80 85 90	
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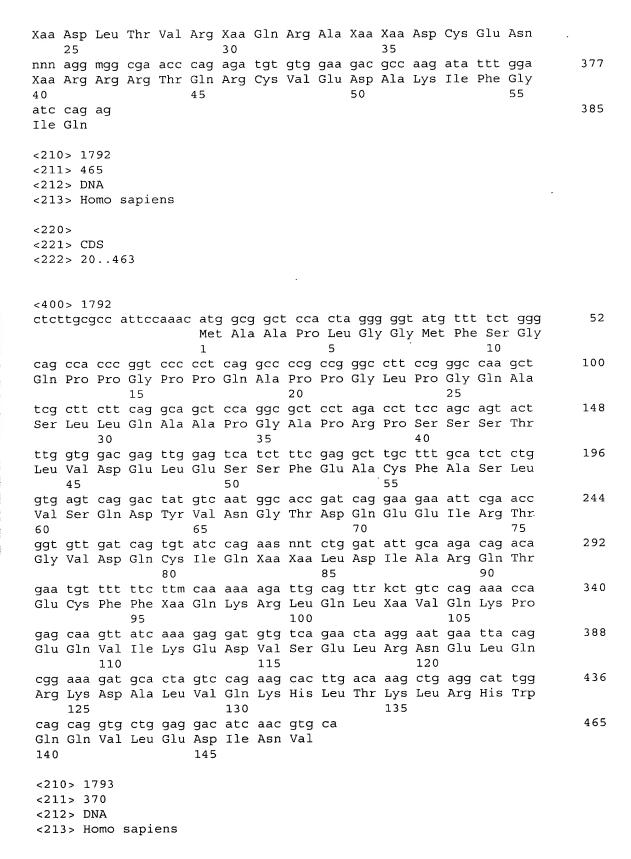
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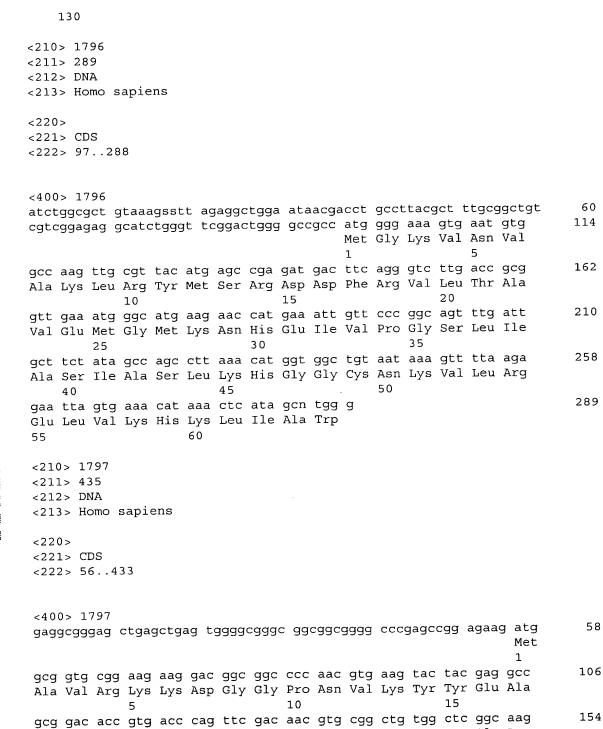
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M 1	et A	la A	cc aa la Ly	aa g ys V 5	tg ti	tt ga he Gi	ag to lu S	cc at er I	t gg le Gi	gc a ly L)	ag t ys P	tt g he G	gc c	tg r eu X 1	cc tta aa Leu 5	
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M 1 gct Ala 999 Gly gtg Val att	et A gtt Val cac His gta Val 50 atc	gca Ala aga Arg 35 ggg Gly	gga Gly 20 gct Ala gaa Glu	aa g ys V 5 ggc Gly gtc Val ggg Gly	gtg Val atc Ile act Thr cgt	tt gate gtg Val ttt Phe cat His tct	ag to lu So aac Asn gac Asp 40 ttt Phe	tct Ser 25 cga Arg ctc Leu	t ggle Gl gcc Ala ttc Phe atc Ile	gc a ly L) tta Leu cgt Arg ccg Pro aat Asn	ag t ys P kat Xaa gga Gly tgg Trp 60 gtg	tt gehe G aat Asn gtg Val 45 gta Val cca	gc c ly L gtg Val 30 cag Gln cag	tg r eu X 1 gat Asp gac Asp aaa Lys	cc tta aa Leu 5 gct Ala att Ile cca Pro act	229 277 325
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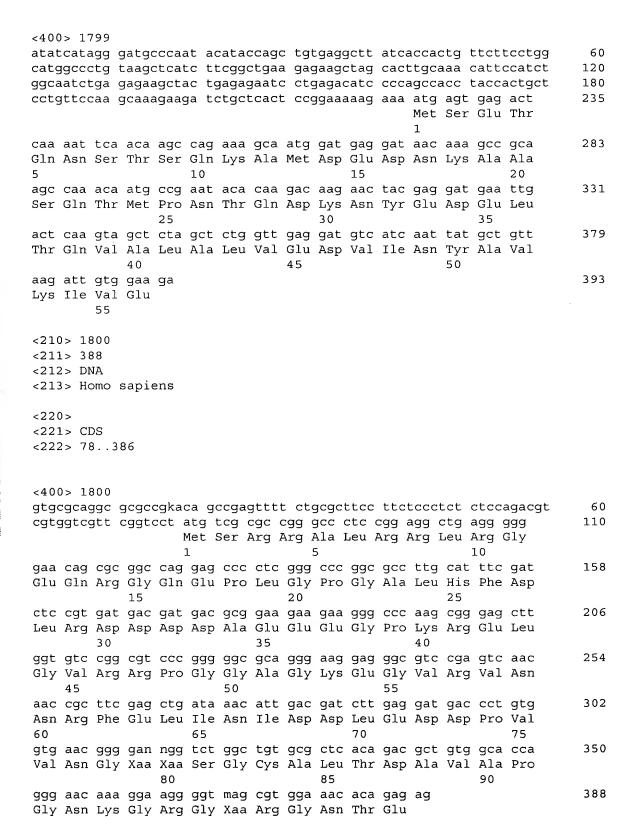
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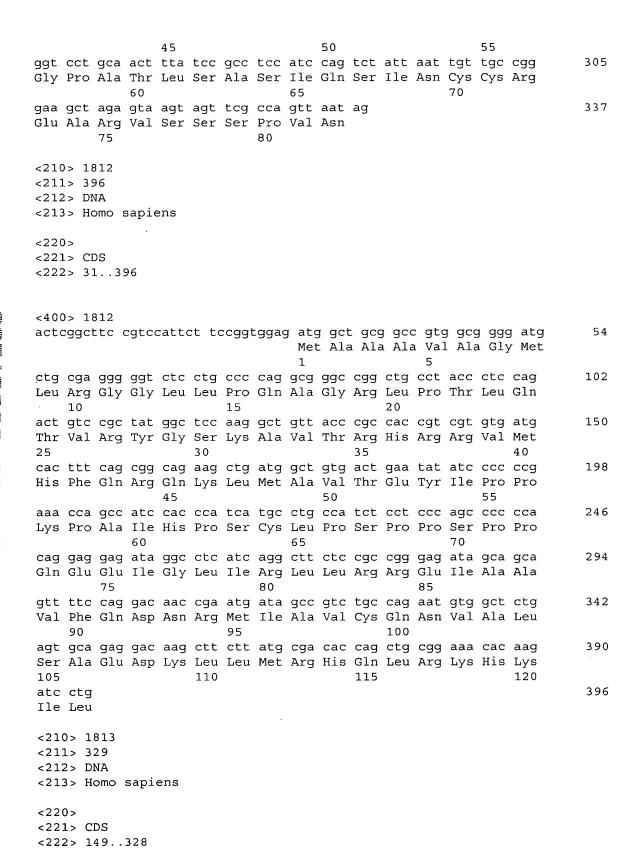
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G1	y 1-10 t	35	и Суг	J 01.	, 1111		40	1				45				
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	e Sei															
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tat	tat	tac	cqc	tca	gga	aag	gca	tat	aaa	gca	tat	aga	ctc	ttg	aaa	3
Cys	Tyr	Tyr	Arg 50	Ser	Gly	Lys	Ala	Tyr 55	Lys	Ala	Tyr	Arg	Leu 60	Leu	Lys	
gtco	ctaco	gg t	ctcq	aqtc	cc t	gcgc	ccgt	g cg	tccg	tctg	cga	cccg	agg	cctc	cagcga cgctgc	1
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Lys		Arg	Gly	Ser	Ile	His 15	Asp	Phe	Pro	GIY	Pne 20	Asp	Pro	ASI	GIII	
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25				~~~	30	2 + 0	200	. +	caa	35	aac	agg	cad	agg	40 caq	3
gag Glu	gcc Ala	Ile	Leu	gac Asp 45	lle	Ile	Thr	Ser	Arg	Ser	Asn	Arg	Gln	Arg	cag Gln	
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tgc ctg agg ctc ggg gag agc ttc gag aag cgg ccg cgg gcc tcc ttc Cys Leu Arg Leu Gly Glu Ser Phe Glu Lys Arg Pro Arg Ala Ser Phe 15 20 25 30	278
cac act att cgt tat gat ttt aaa cca gca tct ata gac act tcc tgt His Thr Ile Arg Tyr Asp Phe Lys Pro Ala Ser Ile Asp Thr Ser Cys 35 40 45	326
gaa gga gag ctt caa gtt ggc aaa gga gat rag tsa caa tta cac tgc Glu Gly Glu Leu Gln Val Gly Lys Gly Asp Xaa Xaa Gln Leu His Cys 50 55 60	374
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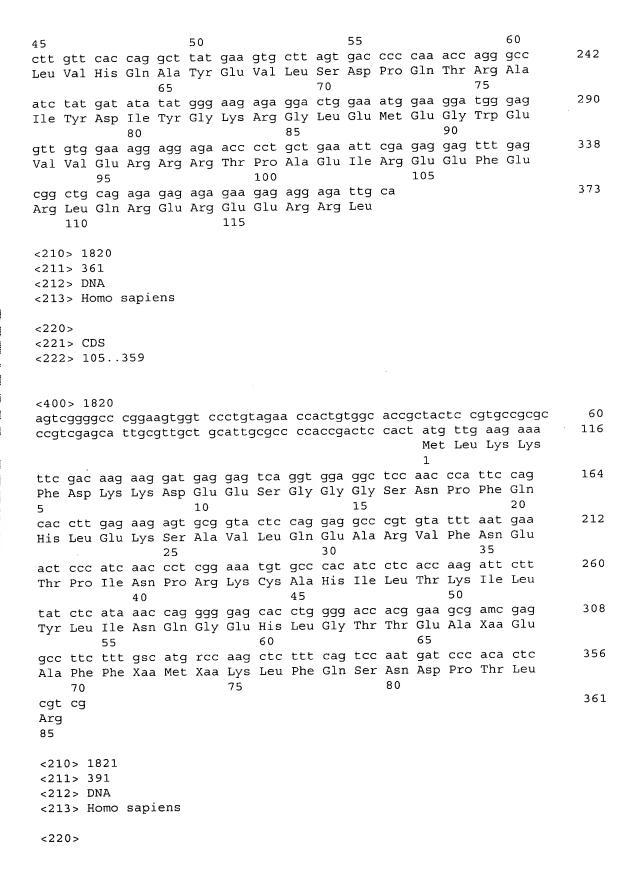


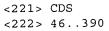
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Met His Phe Gln Arg Gln Lys Leu	
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Ile Leu Lys Lys Val Leu Glu Ala Leu Lys Asp Leu Ile Asn Glu Ala	
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Cys Trp Asp Ile Ser Ser Ser Gly Val Asn Leu Gln Ser Met Asp Ser	
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too cac gto tot ttg gtg cag oto acc otg ogg tot gag ggo tto gac	376
Ser His Val Ser Leu Val Gln Leu Thr Leu Arg Ser Glu Gly Phe Asp	
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Thr Tyr Arg Cys Asp Arg Asn Leu Ala Met Gly Val Asn Leu Thr Ser	
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1 5 10 15 gtt ctt aat gat ggg gaa acc agg aaa atg gca gaa atg aaa act gaa Val Leu Asn Asp Gly Glu Thr Arg Lys Met Ala Glu Met Lys Thr Glu 20 25 30	214
gat ggc aaa gta gaa aaa cac tat ctc ttc tat gac gga gaa tcc gtt Asp Gly Lys Val Glu Lys His Tyr Leu Phe Tyr Asp Gly Glu Ser Val 35 40 45	262
tca gga aag gta aac cta gcc ttt aag caa cct gga aag agg cta gaa Ser Gly Lys Val Asn Leu Ala Phe Lys Gln Pro Gly Lys Arg Leu Glu 50 55 60	310
cac caa gga att aga att gaa ttt gta ggt caa att gra ctt ttc aat His Gln Gly Ile Arg Ile Glu Phe Val Gly Gln Ile Xaa Leu Phe Asn 65 70 75 80	358
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10	atg cta gac tot ggg gcc gat tat ctg	cac ctg gac gta atg gac gga 14/
Cat gca cat gat ggt gtc caa gcc ags aca gtg ggt aaa gcc aat ggc His Ala His Asp Gly Val Gln Ala Arg Thr Val Gly Lys Ala Asn Gly 45 150 151 152 153 154 155 155 155 155 155 155 155 155 155		
His Ala His Asp Gly Val Gln Ala Arg Thr Val Gly Lys Ala Asn Gly 45 50 55 tgt agc agg agc caa tca gta cac ctt tca tcc gag gct act gag aac Cys Ser Arg Ser Gln Ser Val His Leu Ser Ser Glu Ala Thr Glu Asn 60 65 70 cca ggg gct ttg att aaa gac att cgg gag aat ggg atg aag gtt ggc Pro Gly Ala Leu Ile Lys Asp Ile Arg Glu Asn Gly Met Lys Val Gly 75 ctt gcc atc aaa cca gga acc tca gtt gad tat ttg gca cca tgg gct Leu Ala Ile Lys Pro Gly Thr Ser Val Glu Tyr Leu Ala Pro Trp Ala 90 95 100 aat cag ata gat atg gcc ttg gtt atg aca gtg gac cgg ggt ttg gag Asn Gln Ile Asp Met Ala Leu Val Met Thr Val Asp Arg Gly Leu Glu 110 110 115 2210 2210 2210 2210 2210 2210 2220		
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Cys Ser Arg Ser Gln Ser Val His Leu Ser Ser Glu Ala Thr Glu Asn 60 70 70 60 65 70 70 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85 80 85	= -	
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His Leu Xaa Ala Thr Glu Asn Pro Gly Ala Leu Ile Lys Asp Ile Arg 70 75 80		
70 75 80		
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Ala Gln Phe Ala Pro Pro Gln Asn Gly Ile Pro Ala Glu Tyr Thr Ala 30 35 40 cct cat ccc cac ccc gcg cca gag tac aca ggc cag acc acg gtt ccc

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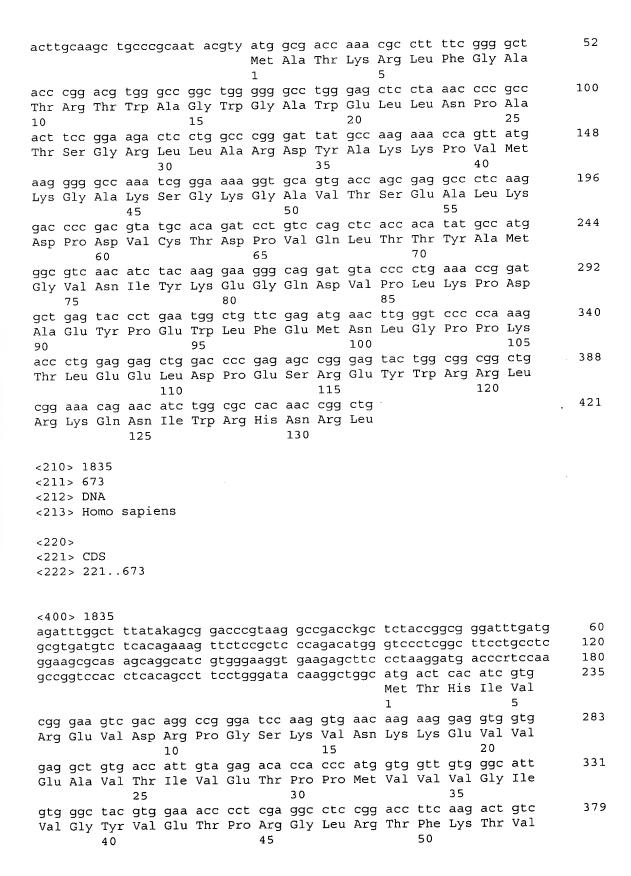
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Arg 20 ctg Leu gtt Val cta Leu caa Gln gca Ala 100 gta	tcc Ser acc Thr cga Arg cat His atc Ile 85 ggt Gly	cga Arg aga Arg att Ile tca Ser 70 aga Arg gct Ala	ggt Gly acc Thr aac Asn 55 gag Glu agt Ser gat Asp	tat Tyr cat His 40 tct Ser ttc Phe gcc Ala atc Ile	ata Ile 25 att Ile CCC Pro tca Ser gtc Val aac Asn 105 caa	10 tgc Cys aac Asn aat Asn gaa Glu ctt Leu 90 atg Met gaa	cgc Arg tat Tyr tca Ser gtt Val 75 atc Ile tta Leu gca	aat Asn gga Gly aag Lys 60 atg Met tca Ser gcc Ala	ttt Phe gtc Val 45 gta Val aat Asn tca Ser gct Ala aga Arg	aca Thr 30 aaaa Lys aat Asn gaa Glu aag Lys tgc Cys 110 ata	15 ggg Gly ggg Gly aca Thr atc Ile cca Pro 95 aag Lys	Phe tct Ser gat Asp ctg Leu tgg Trp 80 ggc Gly acc Thr	tct Ser gtg Val agt Ser 65 gct Ala tgc Cys ctt Leu	gct Ala gca Ala 50 aaa Lys agt Ser ttt Phe caa Gln ctt Leu	ttg Leu 35 gtt Val gag Glu gat Asp att Ile gaa Glu 115 gaa Glu	199 247 295 343 391
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tct gga gac aaa gta gag ata gac cct gtt acg aat cag aaa gcc agc Ser Gly Asp Lys Val Glu Ile Asp Pro Val Thr Asn Gln Lys Ala Ser 30 35 40	208
act aag ttt tgg att aag cag aaa ccc atc tca atc gat tcc gac ctg Thr Lys Phe Trp Ile Lys Gln Lys Pro Ile Ser Ile Asp Ser Asp Leu 45 50 55 60	256
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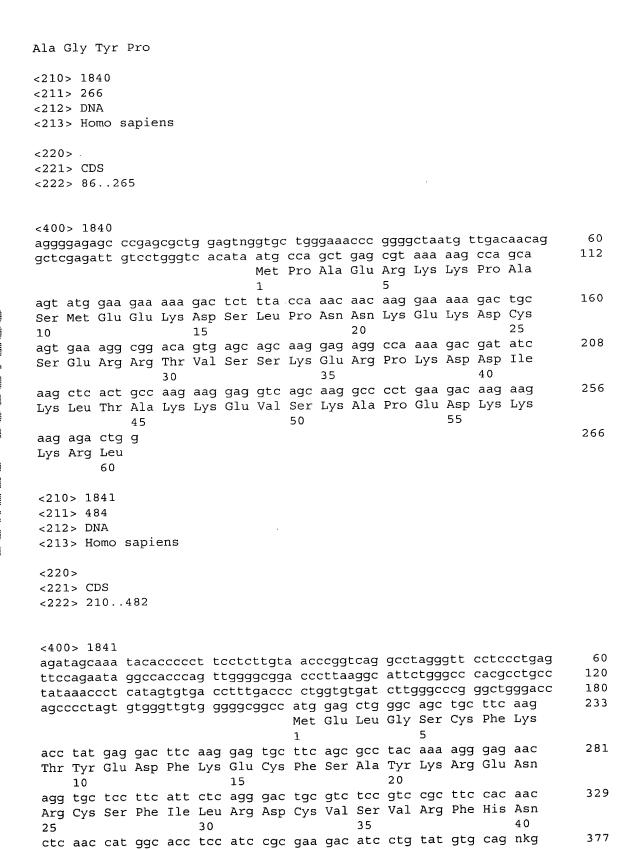


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Gln Asp Glu Asp Gly Lys Lys Gln Leu Glu Lys Asp Phe Ser Ser Met	323
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Lys Lys Tyr Cys Gln Val Ile Arg Val Ile Ala His Thr Gln Met Arg	3,1
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		D_{∞}	Ser			(!In	Met	Gin	Ara	(÷In					Pro	ASII	
	THE	PIO		GIII	Arg	GIII	1100	45	****	0111	GIII	FIIC	ьеи 50	Ser	110		
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ggg tat cct gcc tac cct ggc tac ccg cag cct ggc tac ggt cac cct Gly Tyr Pro Ala Tyr Pro Gly Tyr Pro Gln Pro Gly Tyr Gly His Pro 35 40 45 50	260
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J J					Met	Ala	Gln	Glu	Thr	Asn	His	Ser	Gln	Val	Pro	
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agt	aat	ggt	aga	ata	agc	cca	CCC	gca . Nla	Thr	Car	yıc Vəl	Ser	. agu	Len	tct Ser	233
ser		. Сту	Arg	тте	s ser	50	PIO	Ата	1111	501	55	DCI	501			
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Glu	Ser	Lei	Dro	Val	Gln	Cvs	Thr	Asp	Glv	Ser	· Val	Pro	. Glu	ιĀla	Gln	
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cgg mcc cgg gcg tgg aag cag gac ctc gag cag tct ctg gca gcc Arg Xaa Arg Ala Trp Lys Gln Asp Leu Glu Gln Ser Leu Ala Ala Ala 30 35 40 45	206
tat gtg ccg gtc gtt gtg gac tct aag ggg cag aat ccg gac aag ctc Tyr Val Pro Val Val Val Asp Ser Lys Gly Gln Asn Pro Asp Lys Leu 50 55 60	254
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ctg acg ggg ttt cgg gtg gga gag ggt tcc caa ctc gcg ccc cta gaa Leu Thr Gly Phe Arg Val Gly Glu Gly Ser Gln Leu Ala Pro Leu Glu 30 35 40	208
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ctg Leu	gac Asp 65	atg Met	gag Glu	aca Thr	gat Asp	cgc Arg 70	gag Glu	cgg Arg	ctg Leu	cgg Arg	acc Thr 75	att Ile	tat Tyr	aac Asn	cgc Arg	242
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Met Pro Asn Ala Ser Trp Thr Gly Asn Leu Arg Ala Ile Lys

1 5 10

60

120 168

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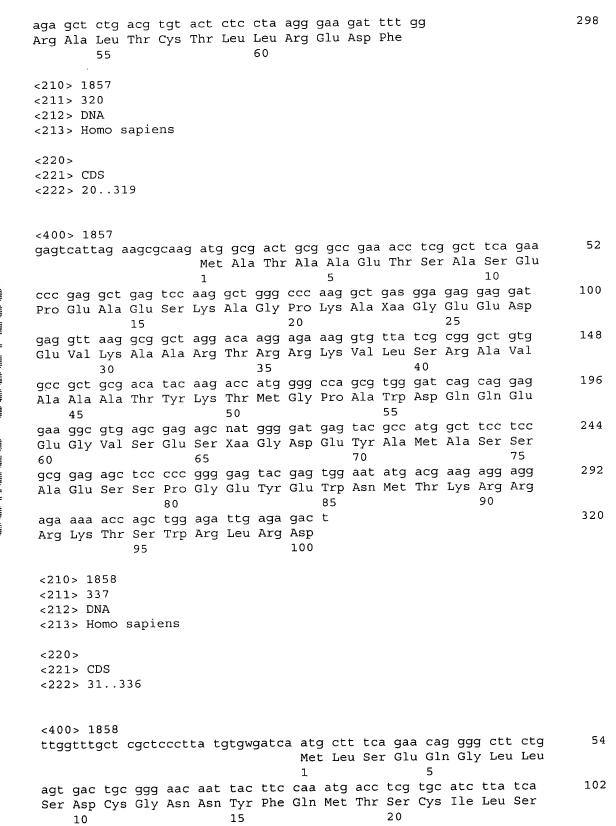
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aac ccc acg gtg gag gt Asn Pro Thr Val Glu Va	g gac ctg cac al Asp Leu His 25	acg gcc aag gg Thr Ala Lys Gl	y Xaa Phe Arg
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ggg ttc tcc tat tgg gct gtg gtg aag aca agg tgc ggc gac tsc agc Gly Phe Ser Tyr Trp Ala Val Val Lys Thr Arg Cys Gly Asp Xaa Ser 20 25 30 35	211
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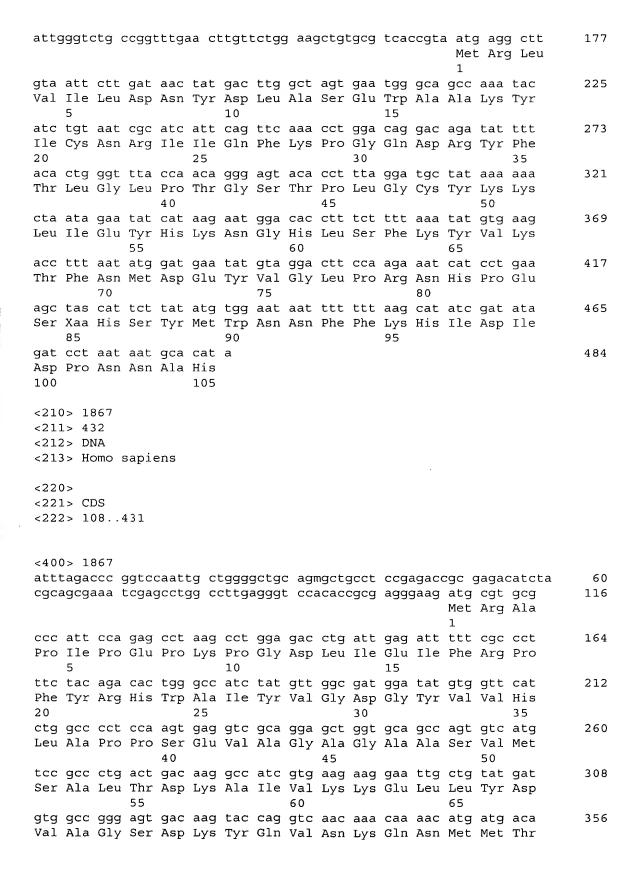
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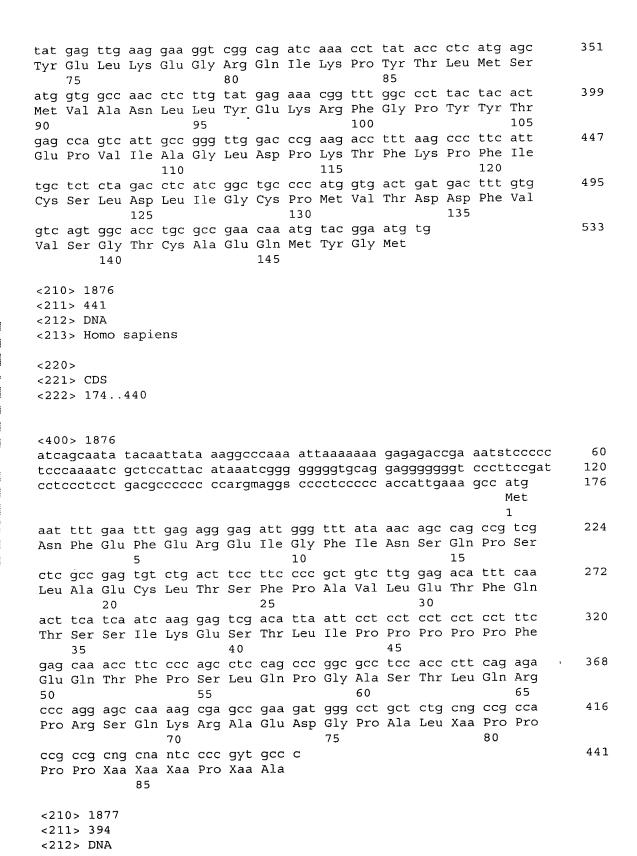
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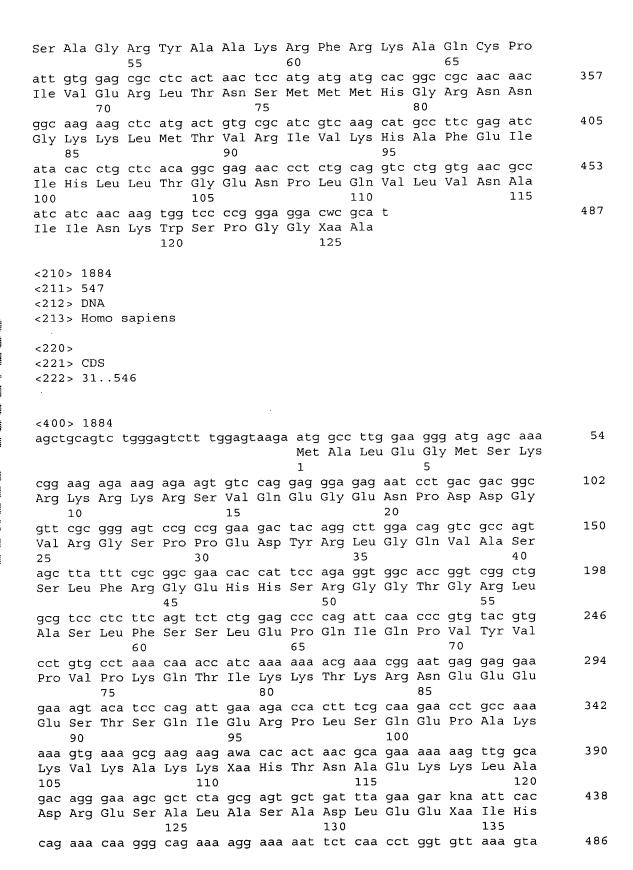
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ctt																351
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Val	Āla	Ile	Phe	Leu	Ser	Ala	Val	Phe	Leu	Tyr	Tyr	Val	Leu	His	Cys	
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a t a	++-	+ ~~	993		aat	ata	tat	taa		aca	cct	ata	gaa		aaa	150
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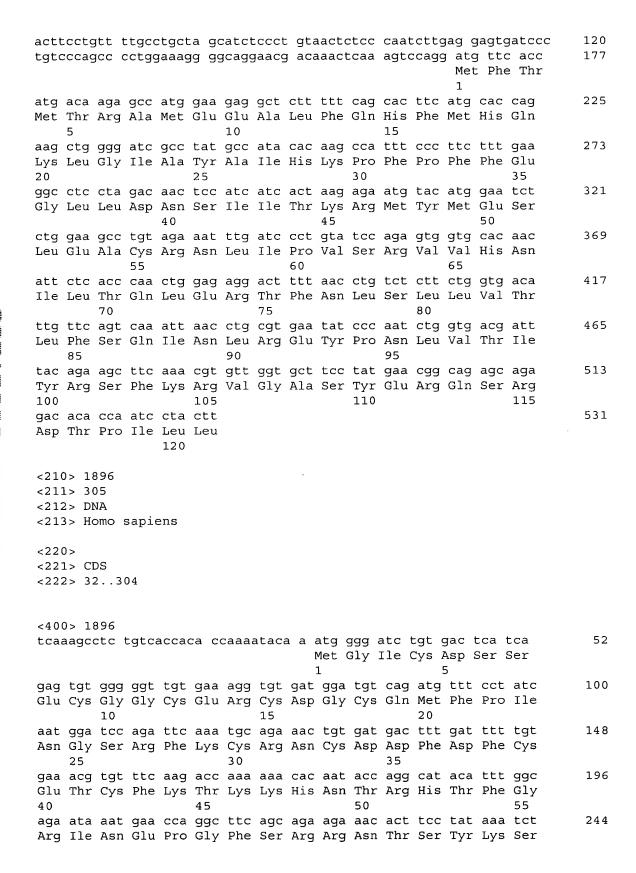
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ctg acc a Leu Thr A	ac ggg sn Gly 5	gat Asp	ccc Pro	tca Ser	act Thr 40	gcc Ala	act Thr	cgt Arg	acc Thr	tgt Cys 45	ccg Pro	gat Asp	ata Ile	323
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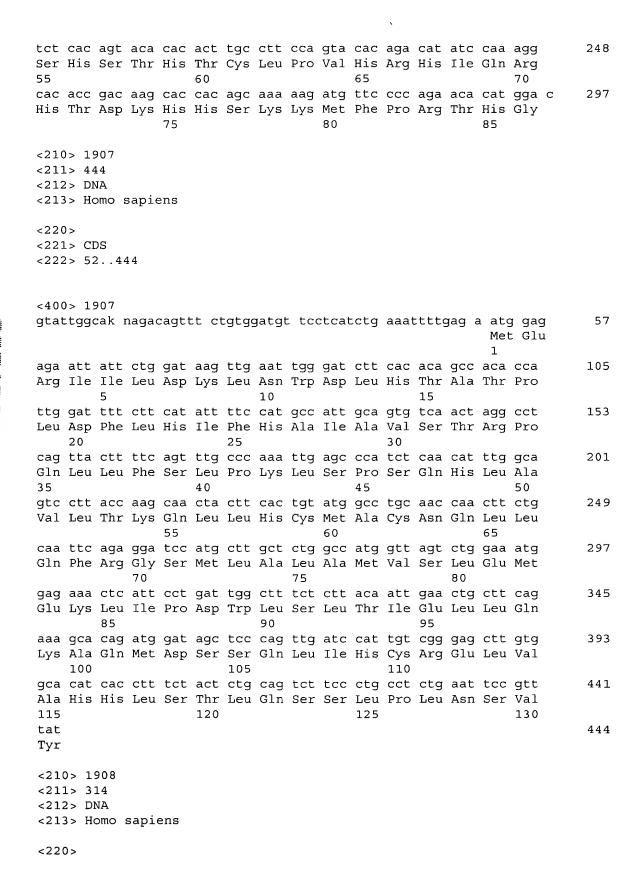
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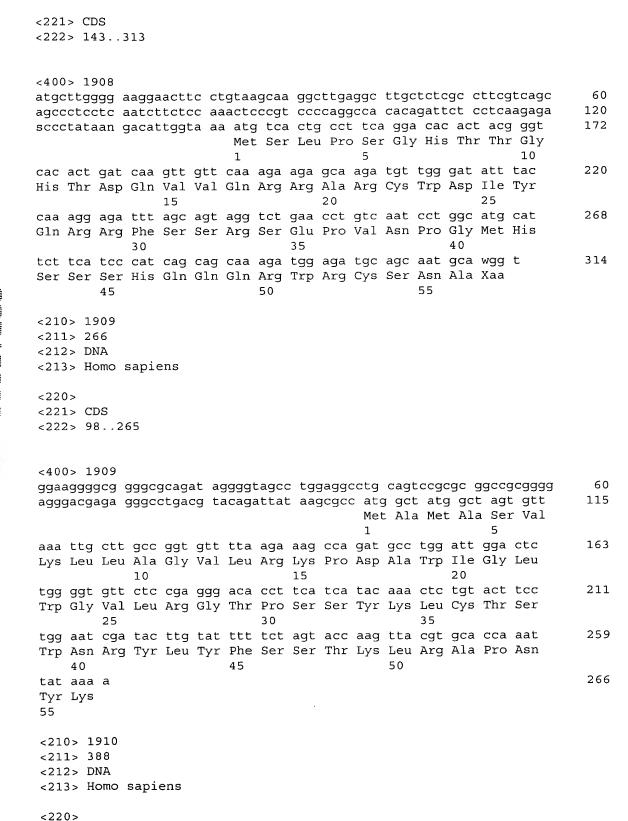
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aaa ggg tot tgo oto amo caa got aga gtg cag tgg oot ttg aag owt Lys Gly Ser Cys Leu Xaa Gln Ala Arg Val Gln Trp Pro Leu Lys Xaa 15 20 25	700
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Thr Thr Thr Ser Lys His Ala Ala Tyr Cys Leu Lys Gly Ser Cys Leu 5 10 15	754
amc caa gct aga gtg cag tgg cct ttg aag cwt act aca gcc tca aac Xaa Gln Ala Arg Val Gln Trp Pro Leu Lys Xaa Thr Thr Ala Ser Asn 20 25 30	754
ttc tgg gct caa gtg atc ctc agc ctc cca gtg gtc ttt gta gac tgc Phe Trp Ala Gln Val Ile Leu Ser Leu Pro Val Val Phe Val Asp Cys 35 40 45	802
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gtg gac aca gca gaa caa gtc tat atc tct tcc ctg gca ctg tta aaa Val Asp Thr Ala Glu Gln Val Tyr Ile Ser Ser Leu Ala Leu Leu Lys 25 30 35 40	448
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gaa gca gac ttg tgt ccg cag tat aca aac tca ccc ttt aat gca cac Glu Ala Asp Leu Cys Pro Gln Tyr Thr Asn Ser Pro Phe Asn Ala His 25	152
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ctg atg ggc aaa cta gct gtg atc cga ggt gtc acc acc aaa gag ttg Leu Met Gly Lys Leu Ala Val Ile Arg Gly Val Thr Thr Lys Glu Leu 40 45 50	440
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acg t Thr I																373
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aga aag tta gcc aag gaa tat cat cct gat aag aat cca aat gca gga Arg Lys Leu Ala Lys Glu Tyr His Pro Asp Lys Asn Pro Asn Ala Gly 30 35 40	265
gac aaa ttt aaa gaa ata agt ttt gca tat gaa gta cta tca aat cct Asp Lys Phe Lys Glu Ile Ser Phe Ala Tyr Glu Val Leu Ser Asn Pro 45 50 55 60	313
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Glu Asn Cys Gln Arg Asn Ala Ser Leu Glu Arg Val Leu Pro Gly Leu	99
Lys Val Pro His Ala Arg Lys Thr Gly Thr Thr Ile Ala Gly Leu Val	47
35 40 45 ttc caa gac ggg gtc att ctg ggc gcc gat acg cga gcc act aac gat Phe Gln Asp Gly Val Ile Leu Gly Ala Asp Thr Arg Ala Thr Asn Asp 50 55 60	95
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					Leu											107
					gca											215
		20			Ala		25		_			30		-	-	
					att											263
	35				Ile	40	_				45					
			_	-	agt Ser	_		_				_		-		311
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Ile	Leu	Ala	Gly	Asp 70	Val	Glu	Thr	His	Ala 75	Glu	Met	Val	His	Ser 80	Ala	
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			85	_	Ala			90					95			
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		100			Val		105			_		110			-	
					act											503
тте	115	GIU	iie	GIN	Thr	120	Arg	GIU	Arg	ASN	Arg 125	GIY	ser	Asn	мет	
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tgt	gca	gtg	agc	tct	ata	gag	gag	caa	tgc	aga	qca	tca	gtt			104
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Tyr	Tyr	Gly 20	Lys	Asn	Ile	Ser	Leu 25	Thr	Leu	Tyr	Asp	Glu 30	Ala	Asn	Thr	
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Asn	Thr 35	Met	Lys	Ala	Thr	Glu 40	Arg	Tyr	Asp	Ile	Phe 45	Asp	Pro	Arg	Gln	
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Xaa Ile Pro Va	l Arg Glu 55	Ser Thr	Val Val	Thr Arg	Thr Trp	Asp Ser 65	
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gaa gat att t Glu Asp Ile L							322
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Met Ala Thr Tyr Leu Glu Phe 1 5	
atc cag cag aat gaa gaa cgg gat ggt gtg cgt ttt agt tgg aac gtg	163
Ile Gln Gln Asn Glu Glu Arg Asp Gly Val Arg Phe Ser Trp Asn Val 10 15 20	
tgg cct tcc agc cgg ctg gag gct aca aga atg gtt gta ccc ctg gct Trp Pro Ser Ser Arg Leu Glu Ala Thr Arg Met Val Val Pro Leu Ala 25 30 35	211
tgt ctc ctt act cct ttg aaa gaa cgt cca gac cta cct cct gta caa Cys Leu Leu Thr Pro Leu Lys Glu Arg Pro Asp Leu Pro Pro Val Gln 40 45 50 55	259
tat gaa cct gtg ctt tgc agc agg cca act tgt aaa gct gtt ctc aac Tyr Glu Pro Val Leu Cys Ser Arg Pro Thr Cys Lys Ala Val Leu Asn 60 65 70	307
cca ctt tgt cag gtt gat tat cga gca aaa ctt tgg gcc tgt aat ttc Pro Leu Cys Gln Val Asp Tyr Arg Ala Lys Leu Trp Ala Cys Asn Phe 75 80 85	355
tgt ttt caa aga aat cag ttt cct cca gct tat gga ggc ata tct gag Cys Phe Gln Arg Asn Gln Phe Pro Pro Ala Tyr Gly Gly Ile Ser Glu 90 95 100	403
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acg gtg ggc aag agc agc aag atg ctg cag cat att gat tac agg atg Thr Val Gly Lys Ser Ser Lys Met Leu Gln His Ile Asp Tyr Arg Met	166
agg tgc atc ctg cag gac ggc cgg atc ttc att ggc acc ttc aag gct Arg Cys Ile Leu Gln Asp Gly Arg Ile Phe Ile Gly Thr Phe Lys Ala 20 25 30	214
ttt gac aag cac atg aat ttg atc ctc tgt gac tgt gat gag ttc aga Phe Asp Lys His Met Asn Leu Ile Leu Cys Asp Cys Asp Glu Phe Arg 35 40 45	262

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aga Arg		_	_												379
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aca cte											211
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gga ac Gly Th	_			-	-	_	_				243
aca at Thr Il		_	_	_		_	_				291
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aaa ga Lys As 110											381
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cag gag aag ccg ccc aaa gaa ctg gtc aat gag tgg tca ttg aag ata 162 Gln Glu Lys Pro Pro Lys Glu Leu Val Asn Glu Trp Ser Leu Lys Ile

60

114

15 aga aag gaa atg aga gtt gtt gac agg caa ata agg gat atc caa aga 210 Arg Lys Glu Met Arg Val Val Asp Arg Gln Ile Arg Asp Ile Gln Arg

30 258 gaa gaa gaa aaa gtg aaa cra tct gtg aaa gat gct gcc aag aag ggc Glu Glu Clu Lys Val Lys Xaa Ser Val Lys Asp Ala Ala Lys Lys Gly 50 45

306 cag aag gat gtc tgc ata gtt ctg gcc aag gag atg atc agg tca agg Gln Lys Asp Val Cys Ile Val Leu Ala Lys Glu Met Ile Arg Ser Arg

65 aag gct gtg agc aag ctg tat gca tcc aaa gca cac atg aac tca gtg 354 Lys Ala Val Ser Lys Leu Tyr Ala Ser Lys Ala His Met Asn Ser Val 80

402 ctc atg ggg atg aag aac cag ctc gcg gtc ttg cga gtg gct ggt tcc Leu Met Gly Met Lys Asn Gln Leu Ala Val Leu Arg Val Ala Gly Ser

95 ctg cag aag agc aca gaa gtg atg aag gcc atg caa agt ctt gtg aag 450 Leu Gln Lys Ser Thr Glu Val Met Lys Ala Met Gln Ser Leu Val Lys

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10 ccc acg gtg gag cag atc ctg gag gat gtg cgg ggt gcg ccg gca gag 152 Pro Thr Val Glu Gln Ile Leu Glu Asp Val Arg Gly Ala Pro Ala Glu 2.5

gat cca gtg ttc acc atc ctg gcc ccg gaa gac ccc cca gtt ccc ttc 200

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agc	cgg Arg	gcc Ala	tac Tyr	gtg Val 70	gct Ala	gcc Ala	aac Asn	cag Gln	cgg Arg 75	ytg Leu	cag Gln	cag Gln	gcg Ala	ggc Gly 80	aac Asn	296
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ccc Pro	acg Thr	gtg Val 20	gag Glu	cag Gln	atc Ile	ctg Leu	gag Glu 25	gat Asp	gtg Val	cgg Arg	ggt Gly	gcg Ala 30	ccg Pro	gca Ala	gak Xaa	153
Xaa	cca Pro 35	Val	Phe	Thr	Ile	Leu 40	Ala	Pro	Glu	Gly	Arg	Gly	Ser	Pro	Val	201
Pro	Gly	Lys	Ser	Gly	Pro 55	Xaa	Thr	Pro	Ala	Ala 60	Arg	Gly	Arg	, Glu	aga Arg 65	249
Ser	Thr	Pro	Leu	Thr	Pro	Asp	Pro	Thr	75	Trp	Glu	ı Pro) Pro	Gln 80	cat His	297
Gly	/ His	Gly	Prc 85	Tyr	Pro	Leu	Arg	Val 90	. Ser	Leu	і Туг	Ser	Ser 95	. Val	gag Glu	345
tgg Trp	g gac Asp	cga Arg	Ph∈	tca Ser	gag Glu	ggt Gly	tct Ser 105	Sei	gac Asp	agg Arg	g ggt g Gly	nga Xaa 110	ı Gly	c cgg / Arg	gcg Ala	393
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ccc acg gtg gag cag rat cct gga gga tgt gcg ggg tgc gcc ggc aga Pro Thr Val Glu Gln Xaa Pro Gly Gly Cys Ala Gly Cys Ala Gly Arg 20 25 30	152
gga tcc agt gtt cac cat cct ggc ccc gga agg ctg gag tgc agt ggc Gly Ser Ser Val His His Pro Gly Pro Gly Arg Leu Glu Cys Ser Gly 35 40 45	200
gag atc tcg act cac tgc agg ctc cga ctc ccc agt tca agc gat tct Glu Ile Ser Thr His Cys Arg Leu Arg Leu Pro Ser Ser Ser Asp Ser 50 55 60 65	248
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gag tot acg too cta otg tot ttg aga act atw ttg ogg aca ttg agg Glu Ser Thr Ser Leu Leu Ser Leu Arg Thr Ile Leu Arg Thr Leu Arg 35 40 45	266
tgg acg gca agc agg tgg agc tgg ctc tgt ggg aca cag cag ggc agg Trp Thr Ala Ser Arg Trp Ser Trp Leu Cys Gly Thr Gln Gln Gly Arg 50 55 60	314
aag act atg atc gac tgc ggc ctc tct cct acc cgg aca ctg atg tca Lys Thr Met Ile Asp Cys Gly Leu Ser Pro Thr Arg Thr Leu Met Ser	362

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gca atc cga aag aag ctg Ala Ile Arg Lys Lys Leu 5			225
acc tgc ctc ctc atc gtc Thr Cys Leu Leu Ile Val			273
gtc cct act gtc ttt gag Val Pro Thr Val Phe Glu 35 40	aac tat wtt gcg gac	att gag gtg gac ggc	321
aag cag gtg gag ctg gct Lys Gln Val Glu Leu Ala 55			369
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aag Lys	acc Thr	tgc Cys	5 ctc Leu	ctc Leu	atc Ile	gtc Val	Phe	agc	aag Lys	gat Asp	cag Gln	ttt Phe 30	ccg	gag Glu	gtc Val	154
tac Tyr	gtc Val 35	20 cct Pro	act Thr	gtc Val	ttt Phe	gag Glu 40	25 aac Asn	tat Tyr	att Ile	gcg Ala	gac Asp 45	att	gag Glu	gtg Val	gac Asp	202
ggc Gly 50	aaq	cag Gln	gtg Val	gag Glu	ctg Leu 55	qct	ctg Leu	tgg Trp	gac Asp	aca Thr 60	gca	ggg Gly	cag Gln	gaa Glu	gac Asp 65	250
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tta	caq	atg Met	qac	ctq	tac	gcg	ctg Leu	cta	Me 1 ggc	et A att	la V gag	al T gag	hr L 5 aag	ys G gca	lu Leu gcg	103.
tta Lev	cag Gln aaa Lys	atq	gac Asp gta	ctg Leu aag	tac Tyr aag	gcg Ala gcg Ala	ctg Leu 15 tat	cta Leu agg	Me 1 ggc Gly cag	att Ile aag	la V gag Glu gcc	gag Glu 20 ctc	hr L 5 aag Lys tcc	ys G gca Ala tgc	lu Leu gcg Ala cac	
tta Lev gac Asr cca	cag Gln aaa Lys 25	atg Met 10 gag Glu	gac Asp gta Val	ctg Leu aag Lys	tac Tyr aag Lys gat Asp	gcg Ala gcg Ala 30 aat	ctg Leu 15 tat Tyr	cta Leu agg Arg	Me 1 ggc Gly cag Gln gca	att Ile aag Lys gct Ala	gag Glu gcc Ala 35 gaa	gag Glu 20 ctc Leu	hr L 5 aag Lys tcc Ser	ys G gca Ala tgc Cys	lu Leu gcg Ala cac	103
tta Lev gac Asg cca Pro 40 cti	cag Glm caaa Lys 25 a gac D Asp	atg Met 10 gag Glu aaaa Lys	gac Asp gta Val aat Asn	ctg Leu aag Lys cca Pro	tac Tyr aag Lys gat Asp 45	gcg Ala gcg Ala 30 aat Asn	ctg Leu 15 tat Tyr ccc Pro	cta Leu agg Arg aga Arg	Me 1 ggc Gly cag Gln gca Ala gat Asp	att Ile aag Lys gct Ala 50 gct	gag Glu gcc Ala 35 gaa Glu	gag Glu 20 ctc Leu ctc	hr L 5 aag Lys tcc Ser ttc	ys G gca Ala tgc Cys cac His	gcg Ala cac His cag	103. 151
tta Leu gac Asr cca Pro 40 ctt Leu	cag Gln aaa Lys 25 a gac D Asp tct Ser	atg Met 10 gag Glu aaaa Lys	gac Asp gta Val aat Asn gcc	ctg Leu aag Lys cca Pro ttg Leu 60	tac Tyr aag Lys gat Asp 45 gag Glu	gcg Ala gcg Ala 30 aat Asn gtg Val	ctg Leu 15 tat Tyr ccc Pro ctg Leu	cta Leu agg Arg aga Arg acc Thr	ggc Gly cag Gln gca Ala gat Asp 65 caa	att Ile aag Lys gct Ala 50 gct Ala	gag Glu gcc Ala 35 gaa Glu gca Ala	gag Glu 20 ctc Leu ctc Leu gcc Ala	hr L s aag Lys tcc Ser ttc Phe agg	gca Ala tgc Cys cac His gct 70	gcg Ala cac His cag Gln 55 gca Ala	103. 151 199
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cgc tcc atg gca tct gga ggt ggt gtt ccc act gat gaa gag cag gcg Arg Ser Met Ala Ser Gly Gly Gly Val Pro Thr Asp Glu Glu Gln Ala 5 10 15	165
act ggg ttg gag agg gag atc atg ctg gct gca aag aag gga ctg gac Thr Gly Leu Glu Arg Glu Ile Met Leu Ala Ala Lys Lys Gly Leu Asp 20 25 30	213
cca tac aat gta ctg gcc cca aag gga gct tca ggc acc agg gaa gac Pro Tyr Asn Val Leu Ala Pro Lys Gly Ala Ser Gly Thr Arg Glu Asp	261
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1 5 10 15 tct gat gat gag gaa gat gta tct tct aaa gta gaa aag gct tat gtt Ser Asp Asp Glu Glu Asp Val Ser Ser Lys Val Glu Lys Ala Tyr Val 20 25 30	277
cca aaa tta aca gga act gtg aag ggt aga ttt gct gaa atg gag aaa Pro Lys Leu Thr Gly Thr Val Lys Gly Arg Phe Ala Glu Met Glu Lys 35 40 45	325
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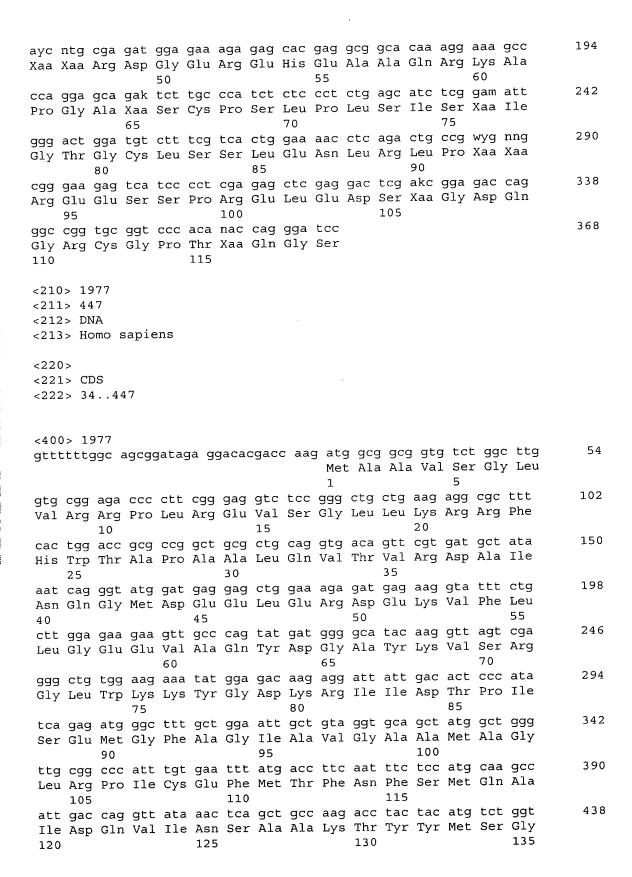
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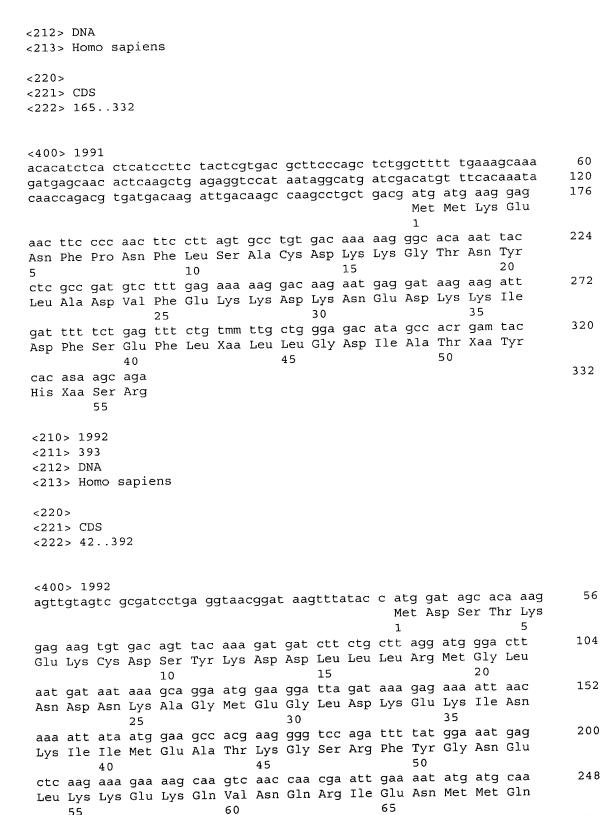
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ccg ttg gca cgg ttg ag Pro Leu Ala Arg Leu Se	gc agt gac agc gcg er Ser Asp Ser Ala	Ala Pro Arg Thr I	ccg cac 211 Pro His 35
ttc gac gtg ata gts at Phe Asp Val Ile Val II	tt ggt gga gga cat le Gly Gly Gly His 45	gcc ggg act gag g Ala Gly Thr Glu A	gca gcy 259 Ala Ala
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cag ggc cgg tcg gag gca ggg gca ggt ccg ggt cca aag caa gga cac Gln Gly Arg Ser Glu Ala Gly Ala Gly Pro Gly Pro Lys Gln Gly His 35 40 45	202
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ctt caa agt gat gct gct ctg cag gtg gac att tct gan gct ctt agt Leu Gln Ser Asp Ala Ala Leu Gln Val Asp Ile Ser Xaa Ala Leu Ser 30 35 40	147
gag cgg gat aaa gta aaa ttc act gtt cac aca aag agt tca ttg ccw Glu Arg Asp Lys Val Lys Phe Thr Val His Thr Lys Ser Ser Leu Pro 45 50 55	195
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Trp	Glu	Gln	Glu	Leu	Tyr	Ser	Gln	Leu	Val	Tyr	Ser	Xaa	Pro	Thr	Pro	
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ttc	ttc	сса	cac	ctt	cgc	tgg	aga	tg								423
Phe	Phe	Pro	His	Leu	Arg	${\tt Trp}$	Arg									
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Pile	АТА	10	. шуз	CLY	1111	БуБ	15			,	-	20	•		_	
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ago	ato	aco	g gag	gĸt	gto	Thr	gay) aye	Dhe	. aag	y ycc : Val	Sei	· yes	Lei	g gtc ı Val	
Ser	. 116	e Thi		Хаа	. vai	. 1111	GIU	80	FIIC	Lly	, vai		85	. 200		
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Tou	Dhe	. η C (a Leu	Δla	Phe	Len	Thi	CVS	· Val	l Vai	l Phe	e Lei	ı Ala	ā		
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Arg Gln Asp Ser Arg His Gln Arg Ile Arg Leu Pro His Leu Glu Ala 25 30 35	
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1 5 10 ggc ctg gcc ctc tgc aag cgg ctg ctg gcg gaa gat gat gag ctt cat Gly Leu Ala Leu Cys Lys Arg Leu Leu Ala Glu Asp Asp Glu Leu His 15 20 25 30	158
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ckt tgc ttt gg Xaa Cys Phe Gl 75	y Leu Ser I 80	le Ala Thr	Met Val Gln 85	Cys Phe Gly I	His 90
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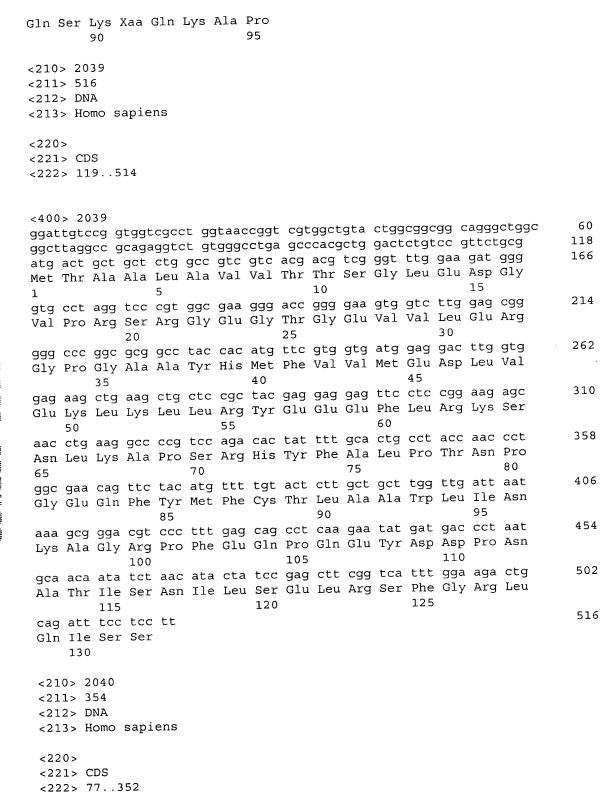
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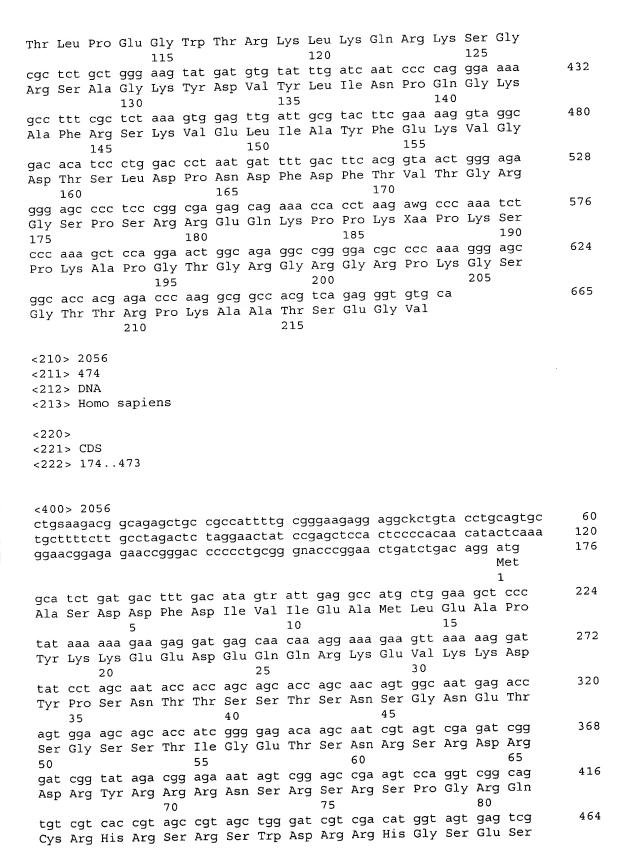
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Lys Thr Leu Thr Gly Val Leu Pro Glu Arg Gln Lys Leu Leu Gly Leu	
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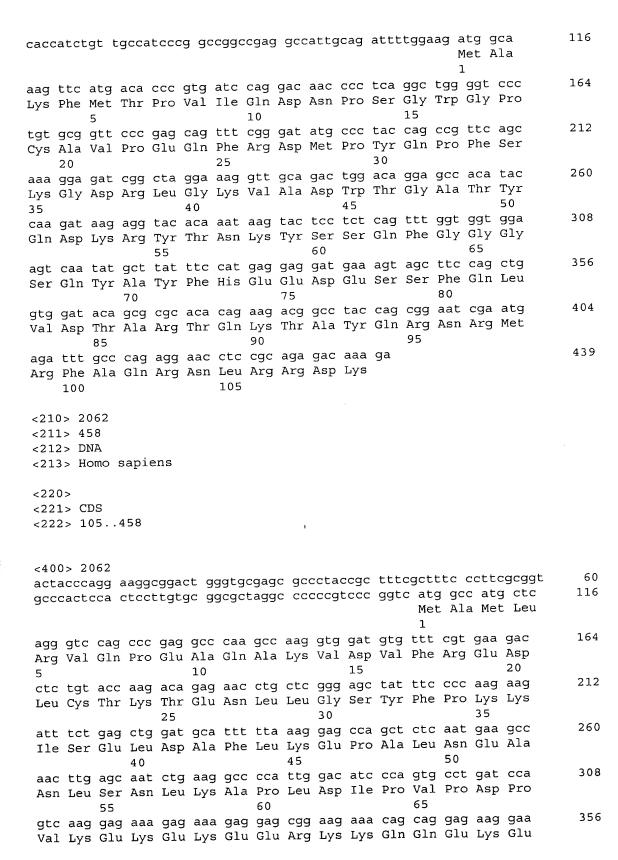


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aaq	g to	c cti	CC1	c gag	y Egg	ים. ד.בי ום. ד	, cci	- yal r Ast	. ay	j aat	s Lv	s Arc	Ala	a Le	a cag u Gln	-
ηλ	s se:	т цеі 20	u PI	0 91	v TT	ישני	25	- 130F		, — _I ,	1	30	٠٠			
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cct Pro	cca Pro 10	ccg Pro	cct Pro	cgg Arg	ggt Gly	caa Gln 15	gtc Val	acc	cta Leu	tat Tyr	gag Glu 20	cac	aat Asn	aac Asn	gag Glu	221
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363

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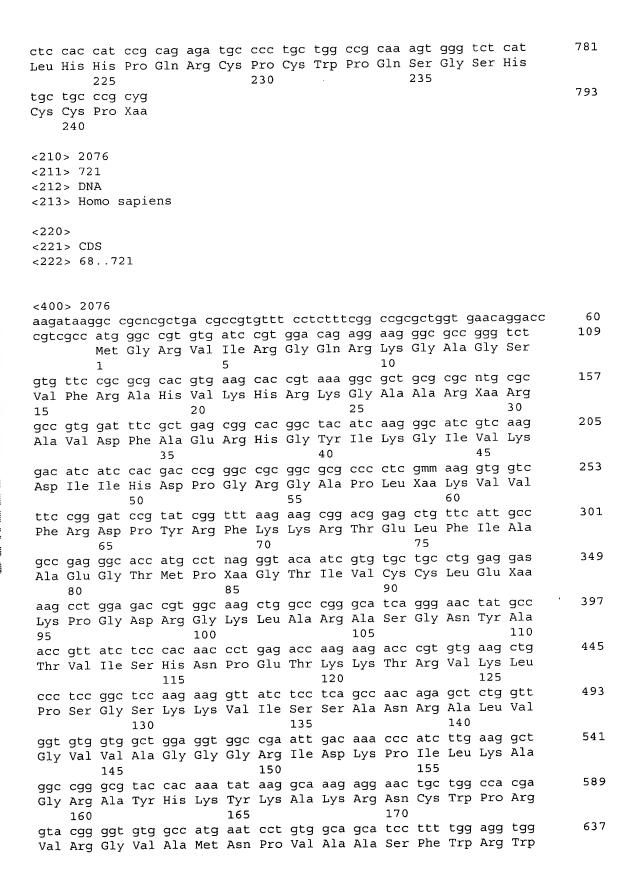
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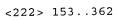
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Leu	Arg 65	Ser	ccg Pro	Xaa	Trp	Gly 70	Trp	Arg	Gly	Thr	Gly 75	Gly	Phe	Ser	GIY	362
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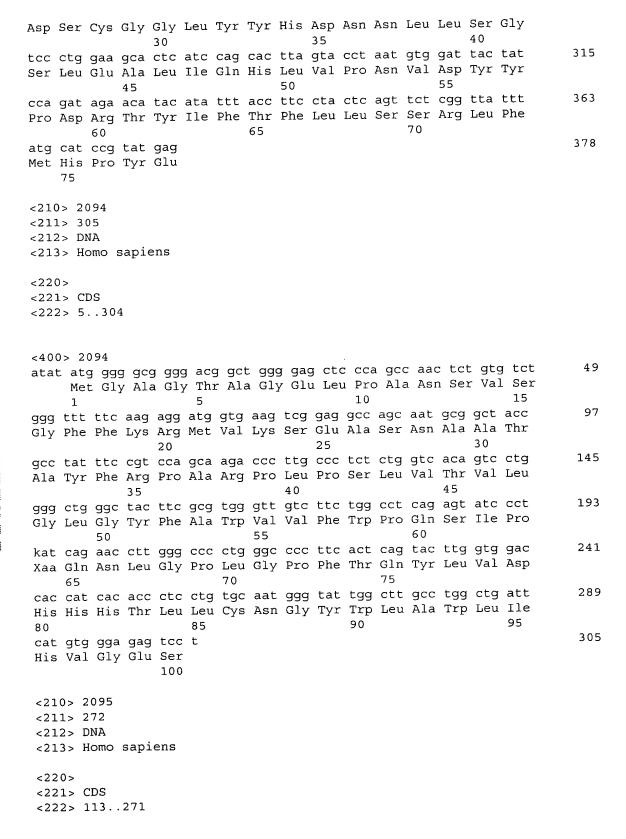
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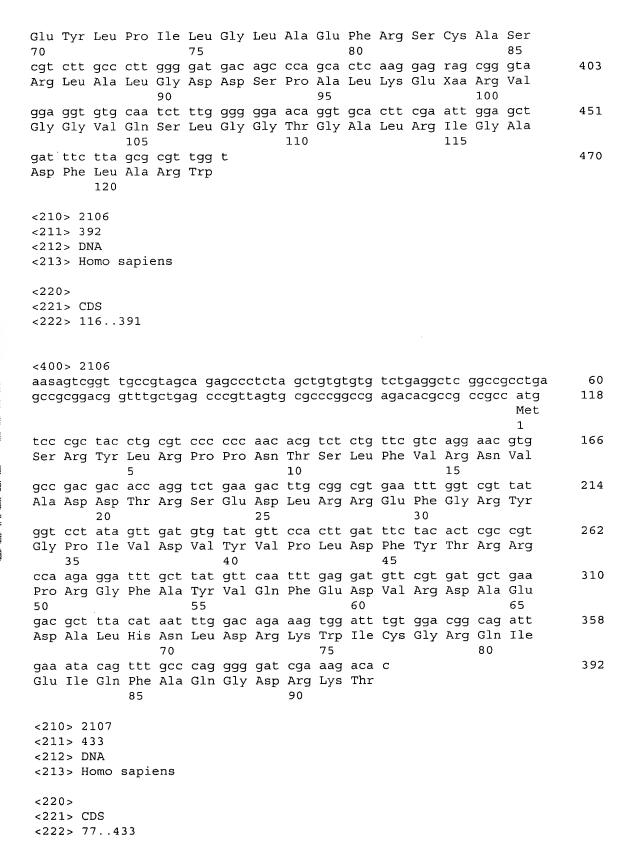
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Aan	990	. cla	Tur	712	Glu	712	Ser	Δla	Len	Tyr	Glv	Ara	Ala	Leu	Ara	
Upli	, оту	9111	25	та	QI U	,,,, C	JUL	30		-1-	1	5	35		,	
~ + -					ggt	+ ~+	tas		cca	uss	gaa	gaa		att	ata	259
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val	ьет.		ида	GIN	. сту	ser	45	Asp	FIO	GIU	. Gru	50	. Jer	v ca 1.	104	
.		40		~~~	qca	+~+		++~	220	na+	aas		tac	aca	gac	307
rac	: CCC	: aac	. cua	uca	uud	LYL	cac		aay	yat	yya	· ·····		ພຽດ		

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208

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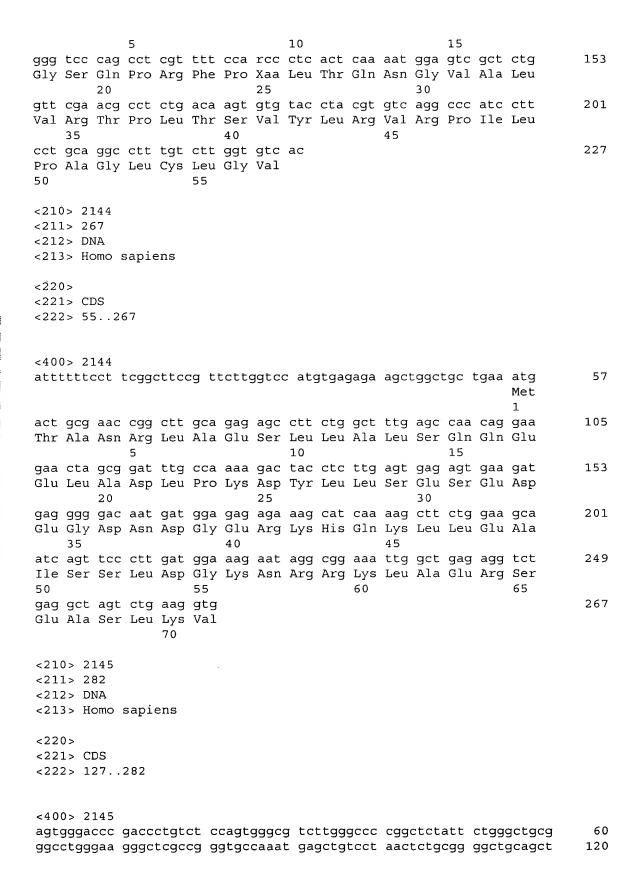
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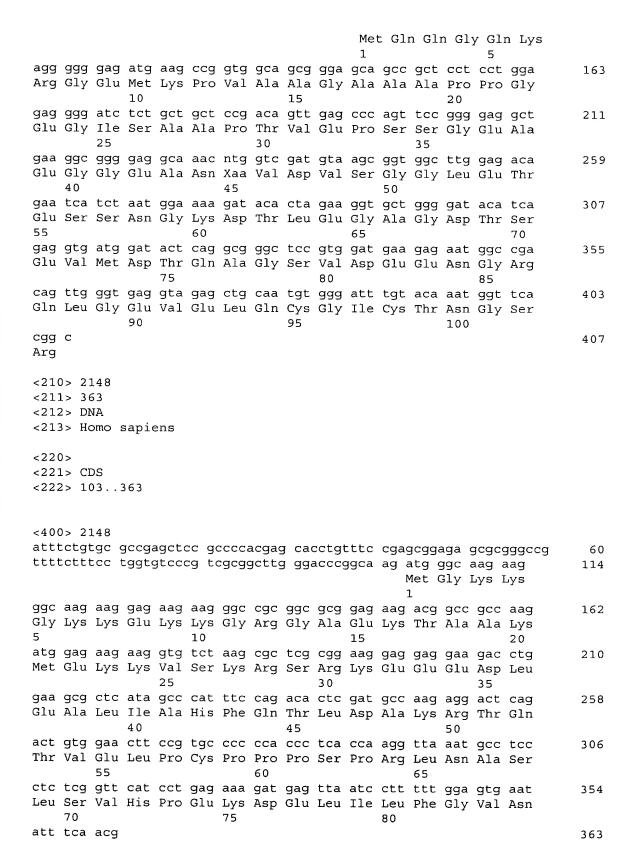
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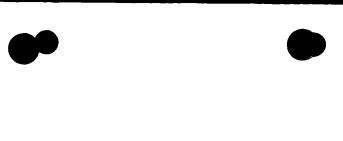
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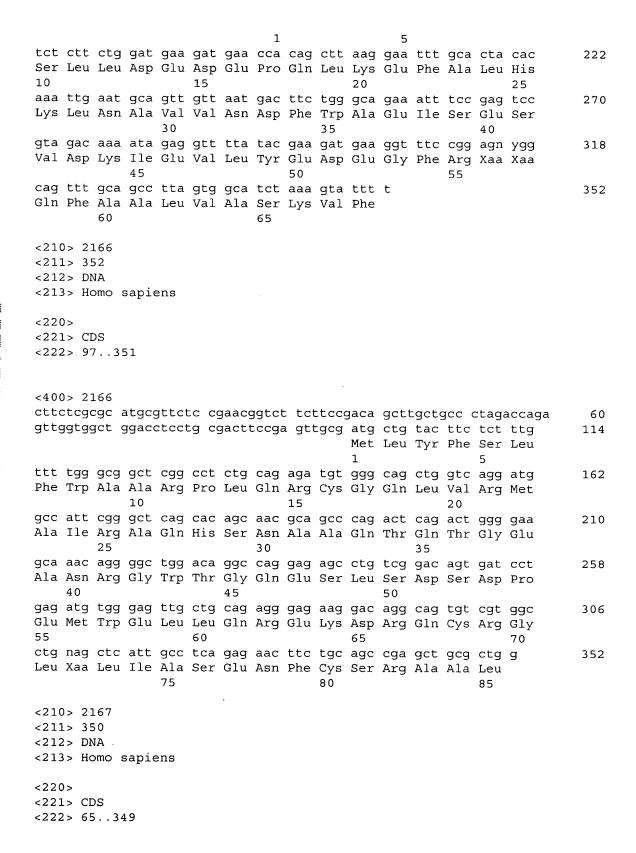
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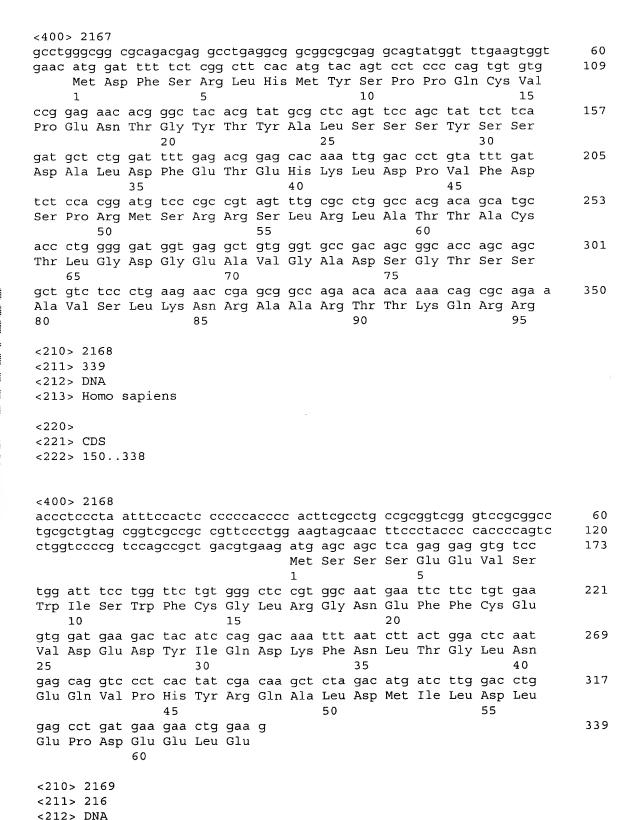
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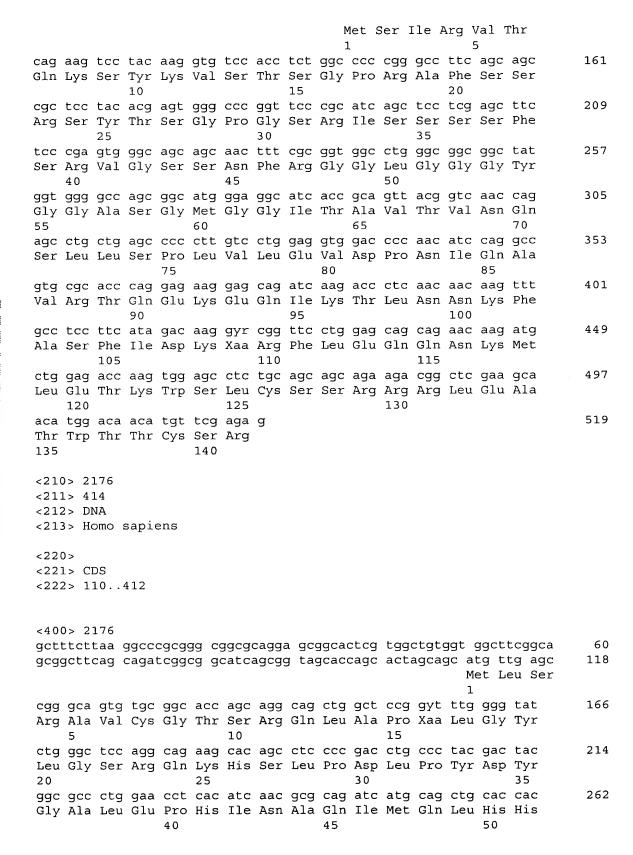
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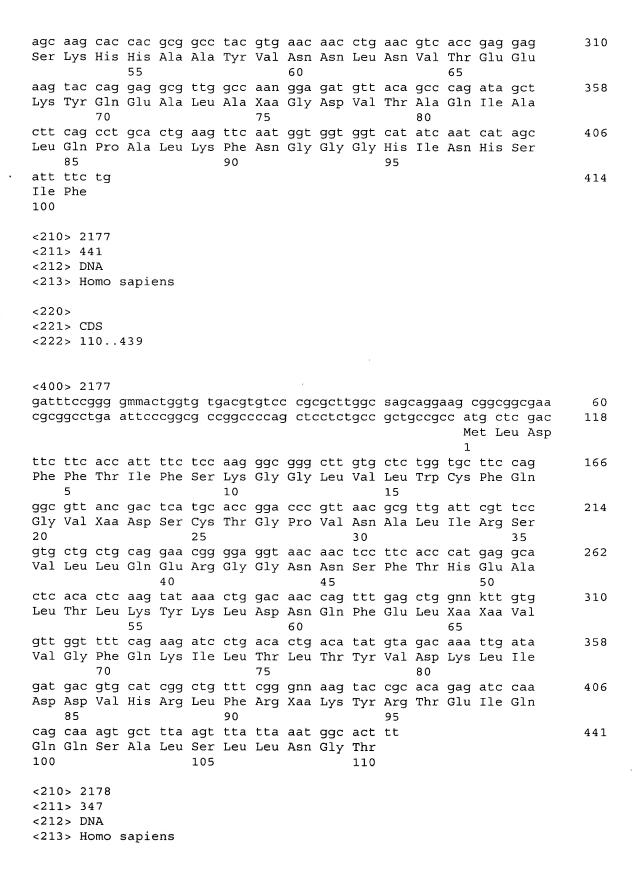


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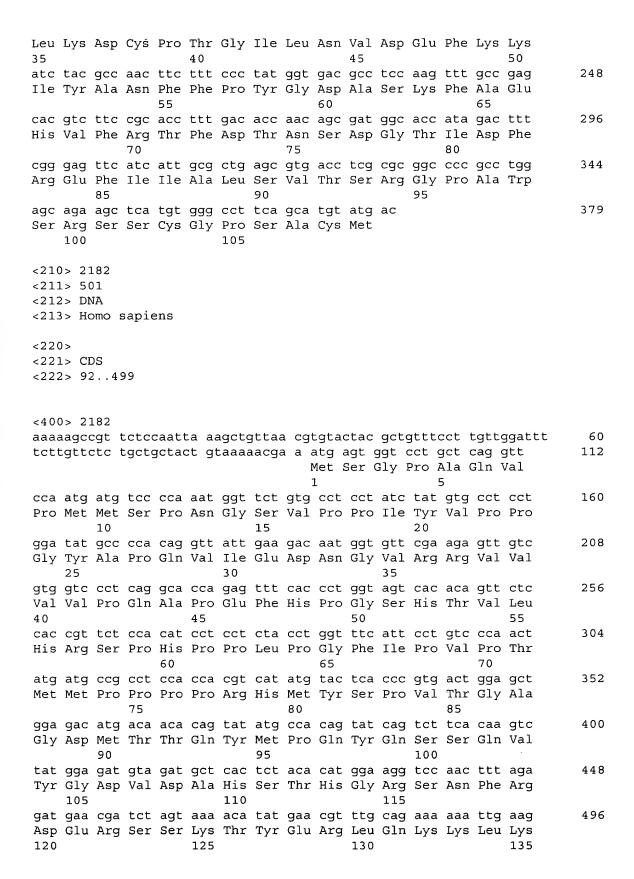
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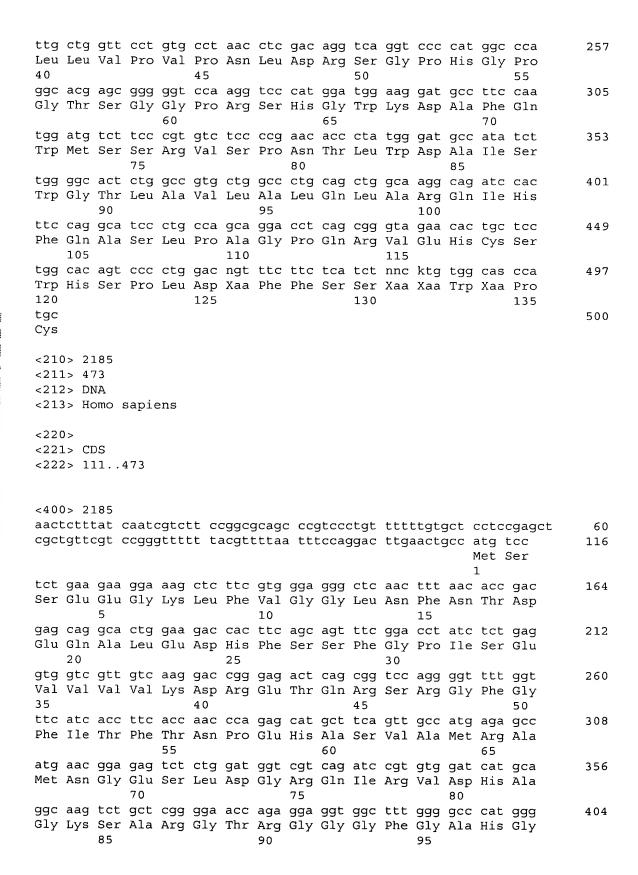
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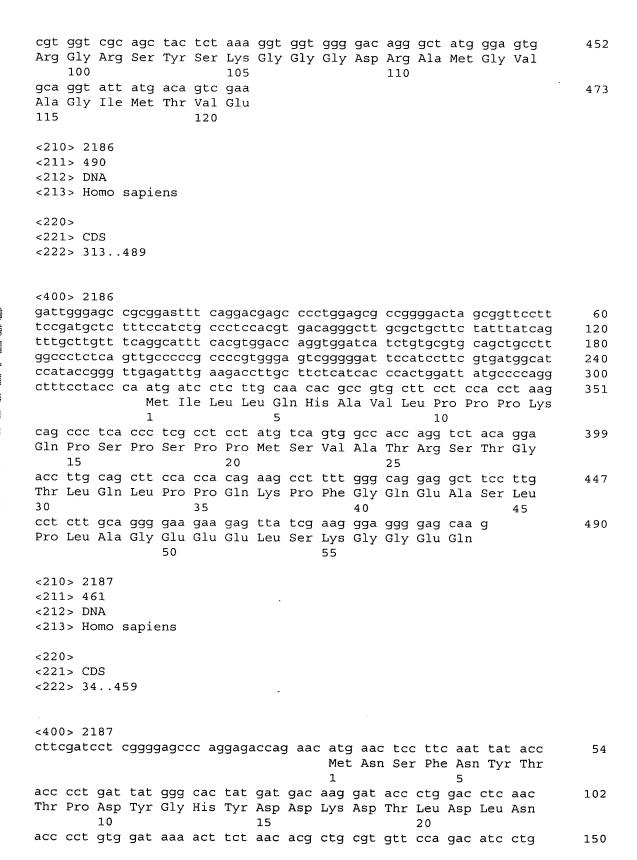
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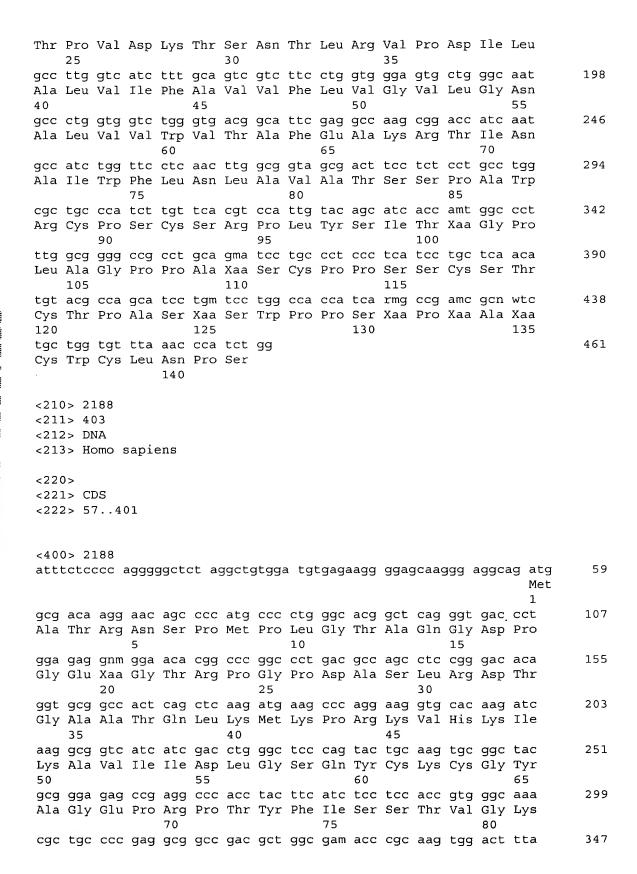
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Asn Thr Glu Phe Ser Glu Leu Glu Leu Gln Glu Trp Tyr Lys Gly Phe												
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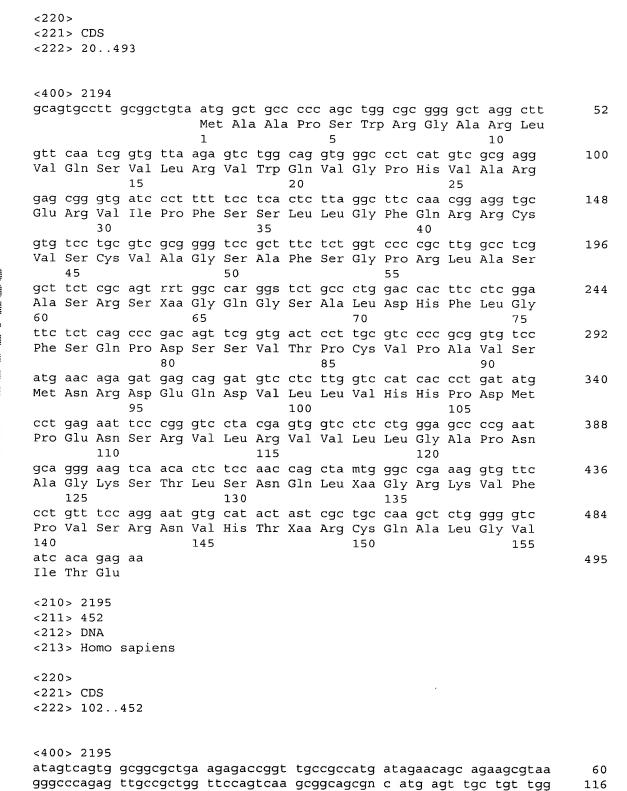
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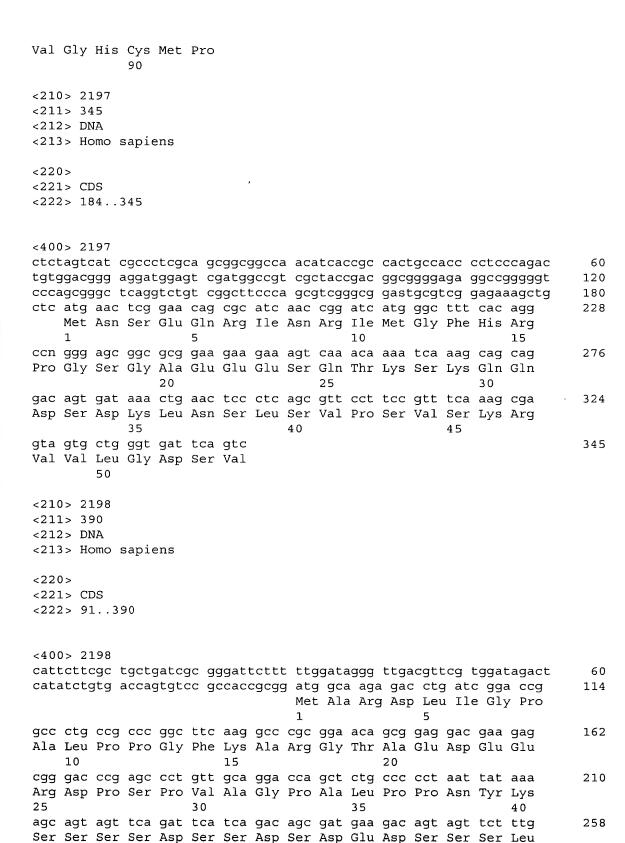


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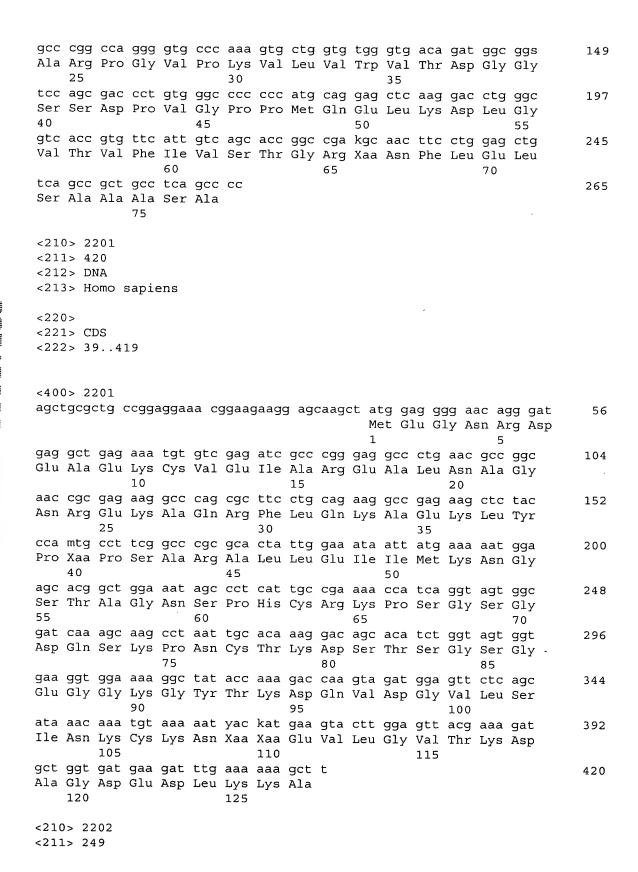
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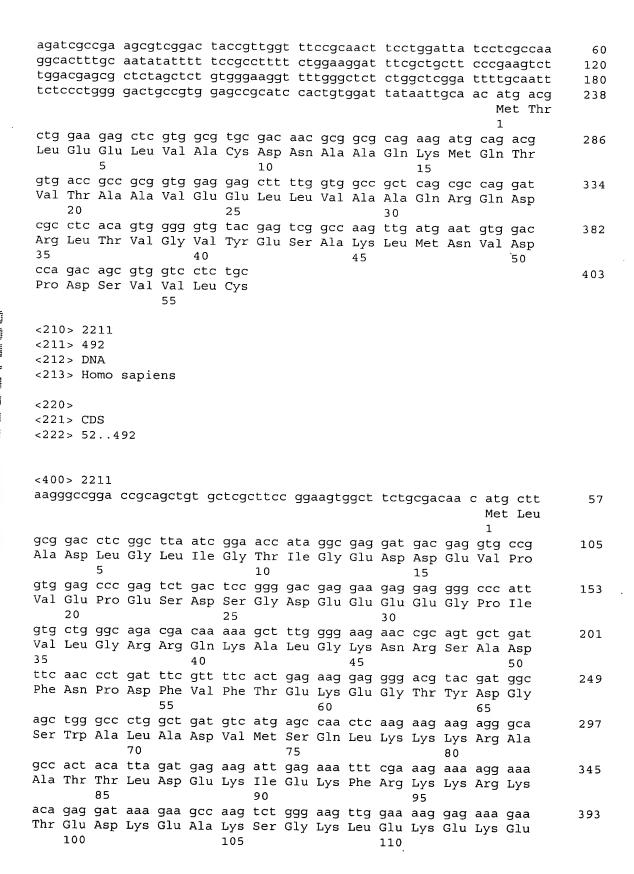
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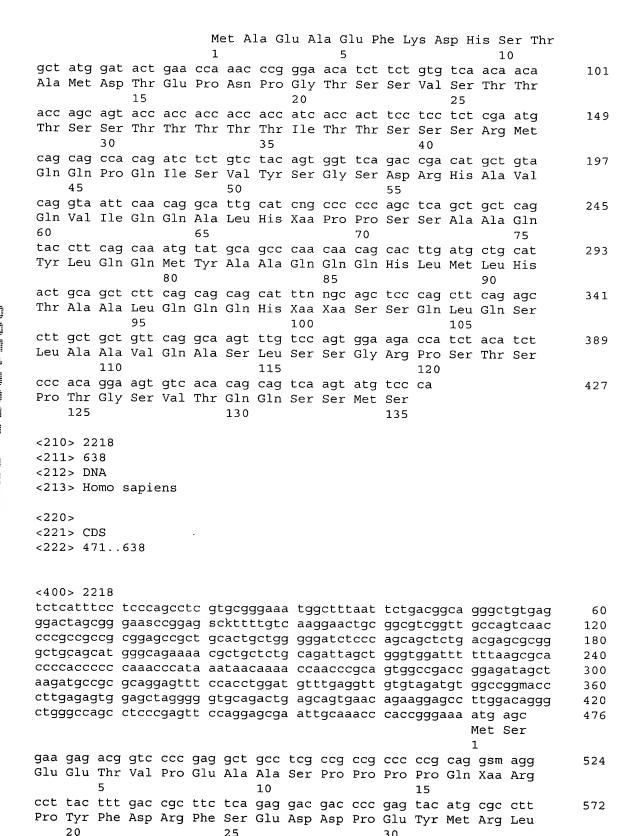
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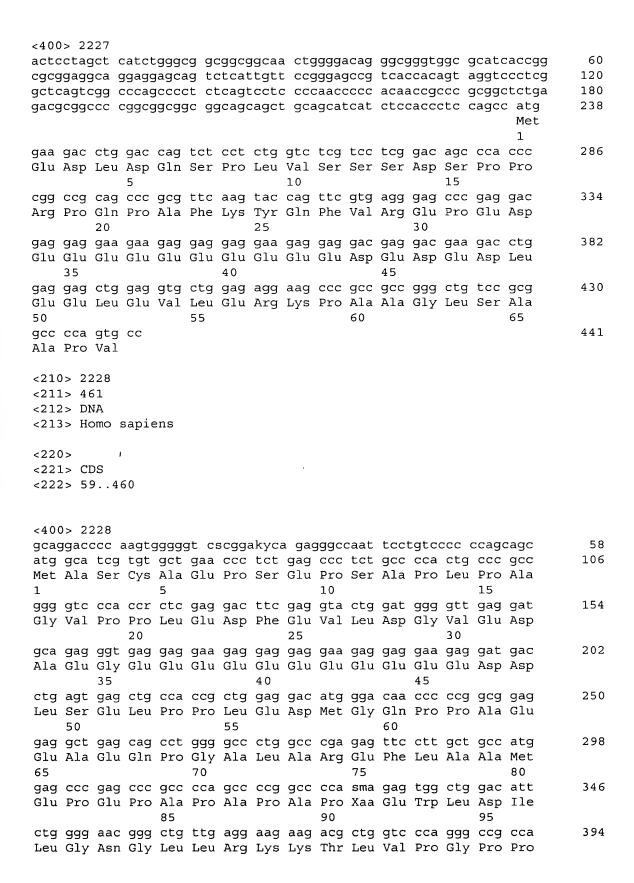
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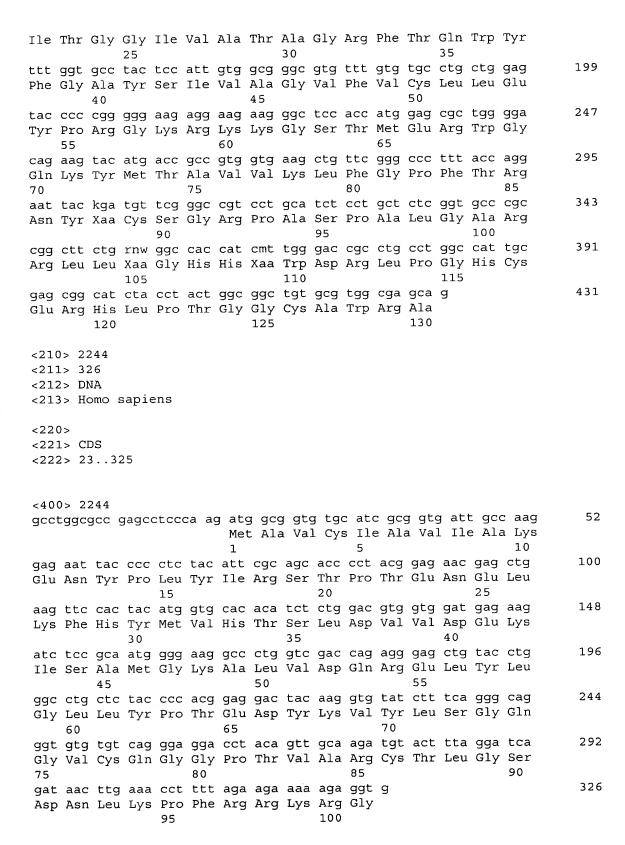
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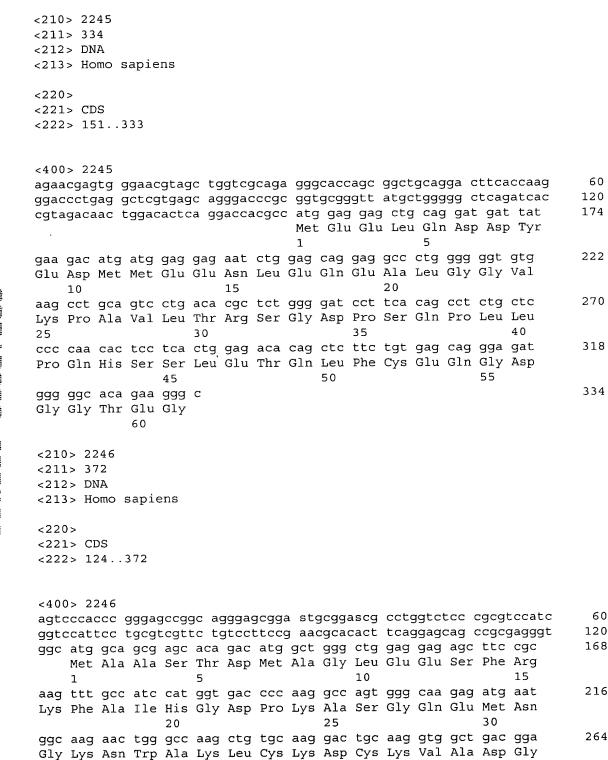
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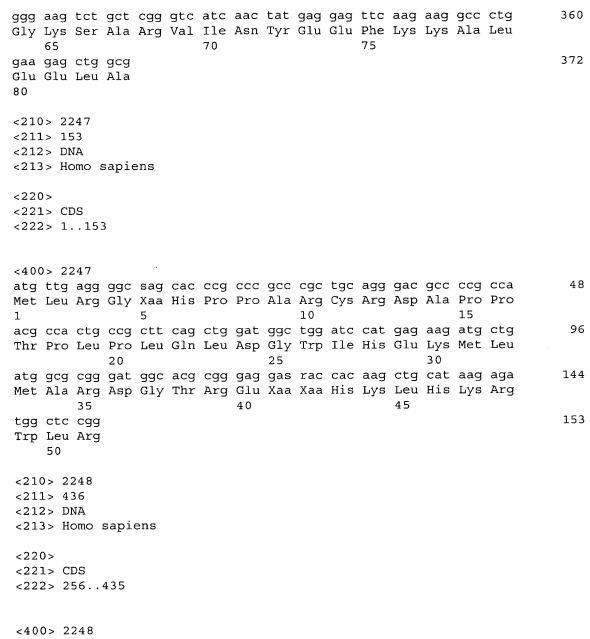
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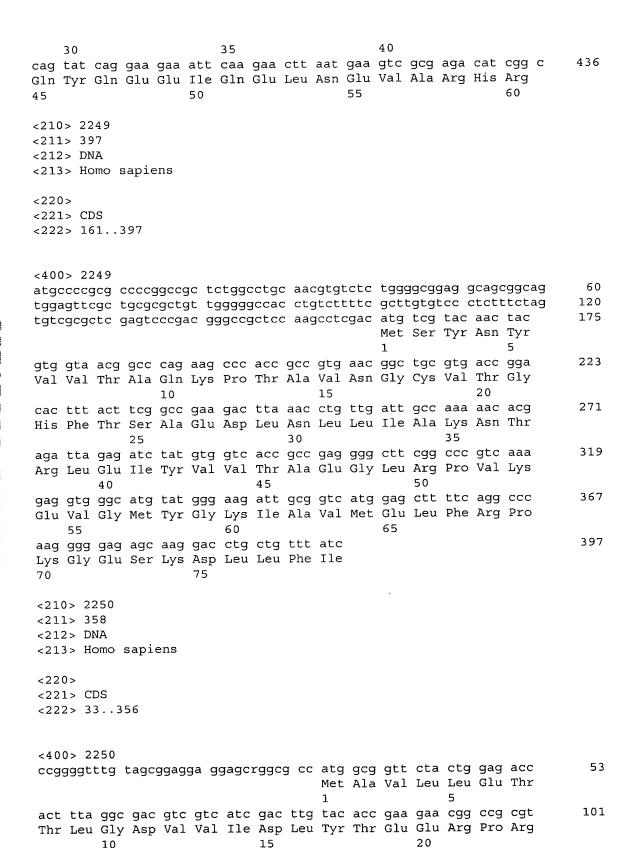
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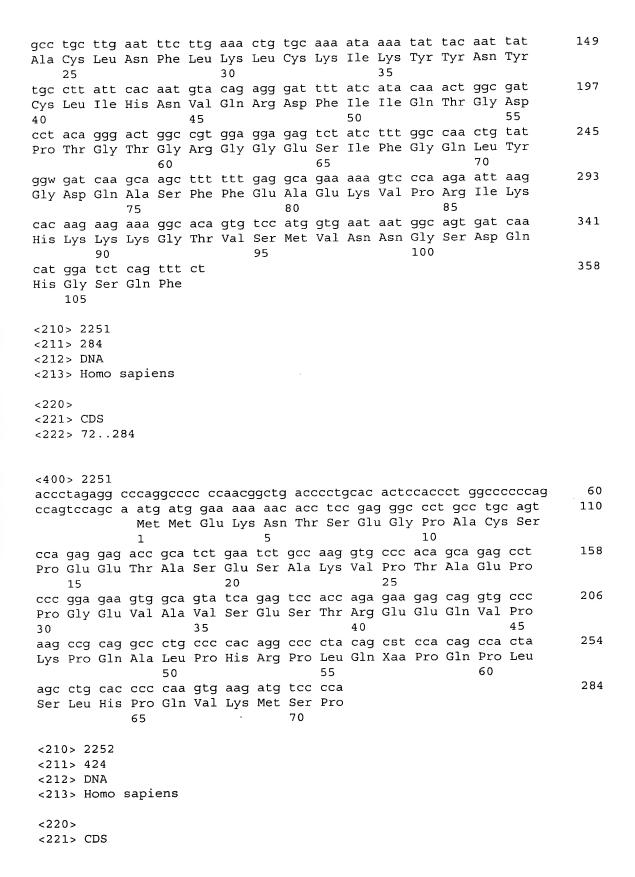
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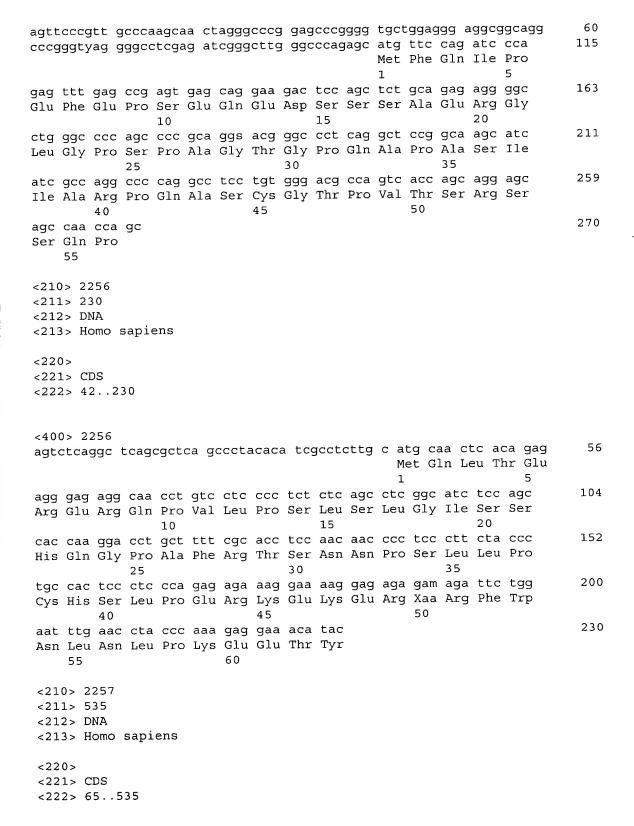
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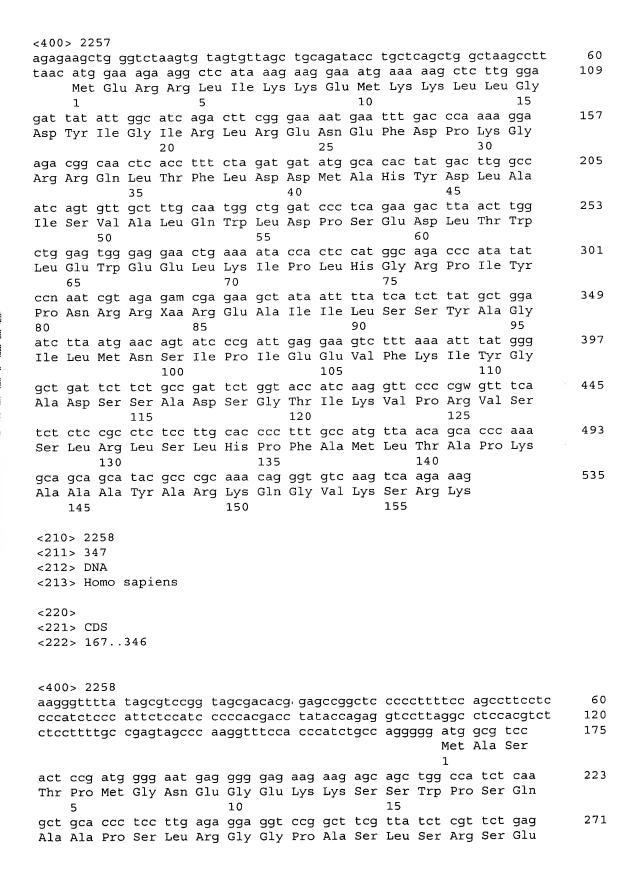


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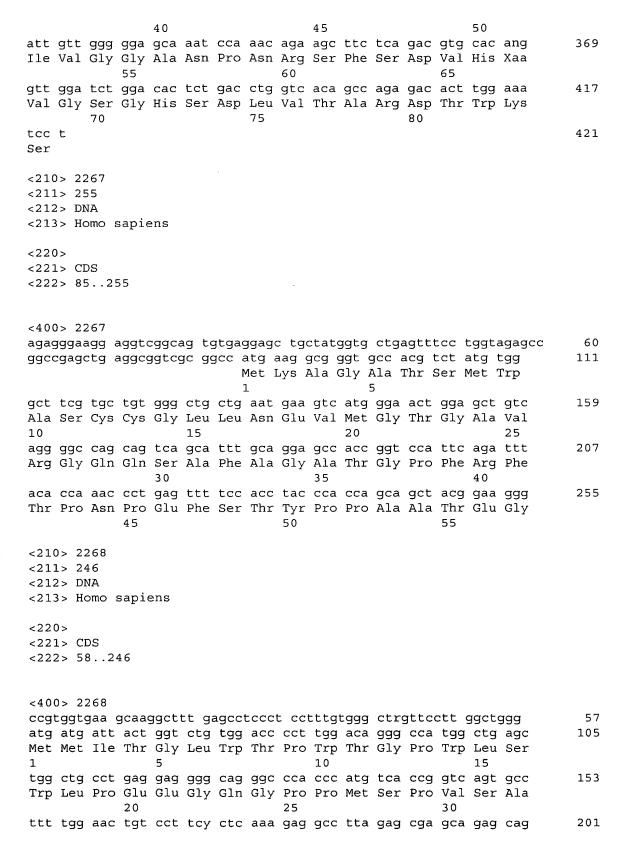
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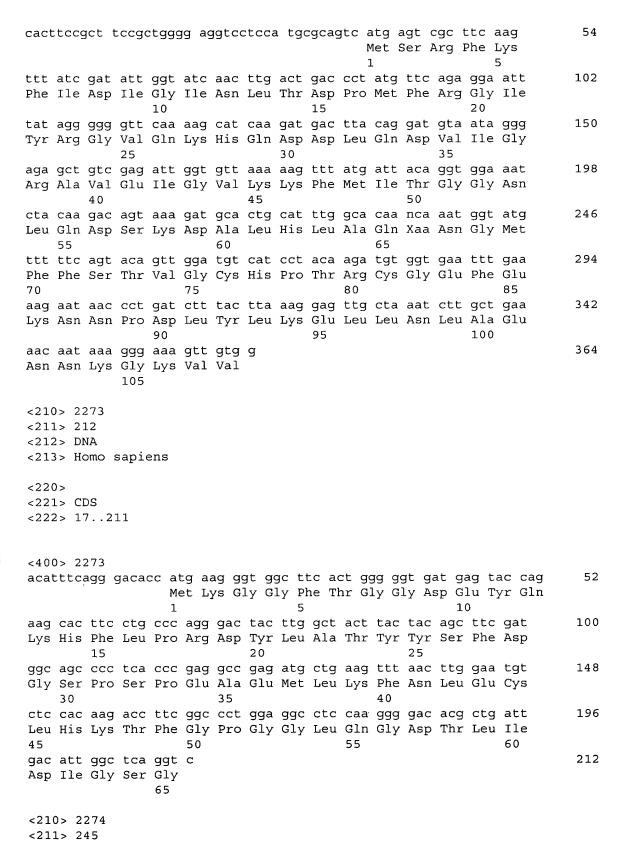
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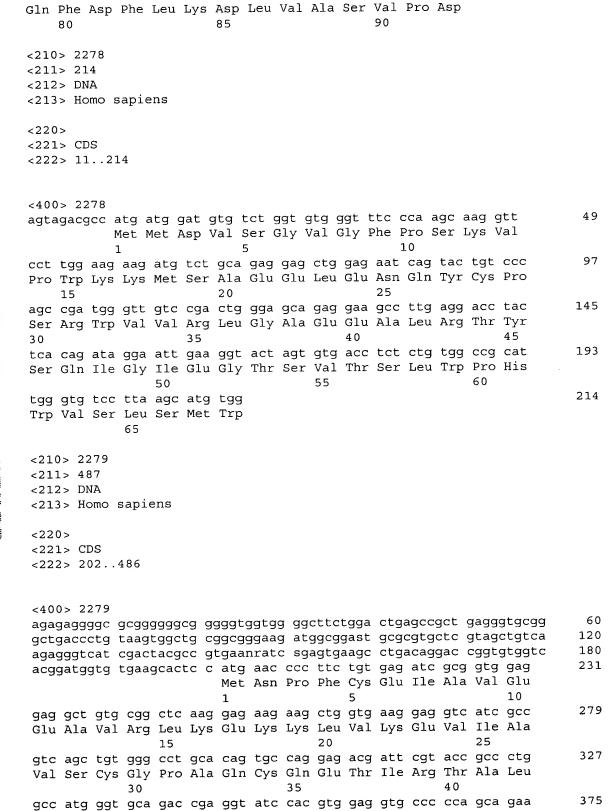
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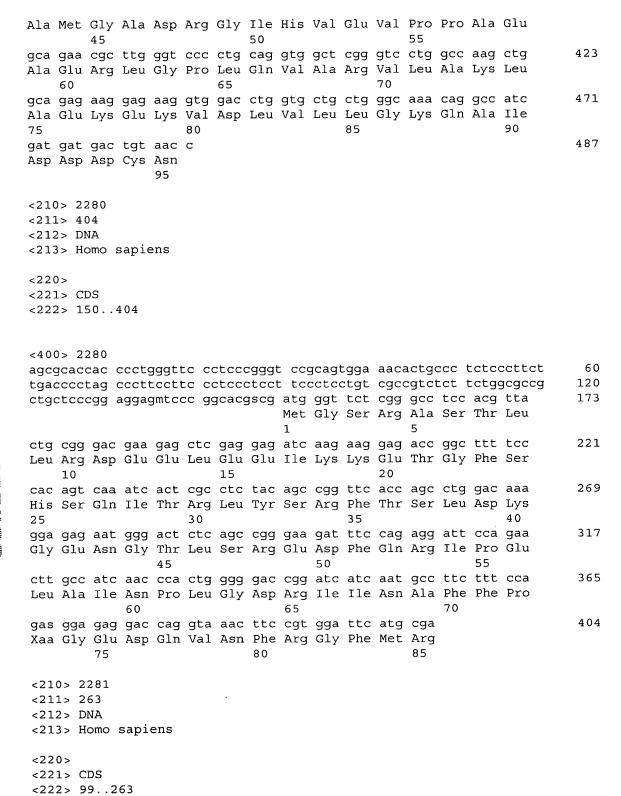


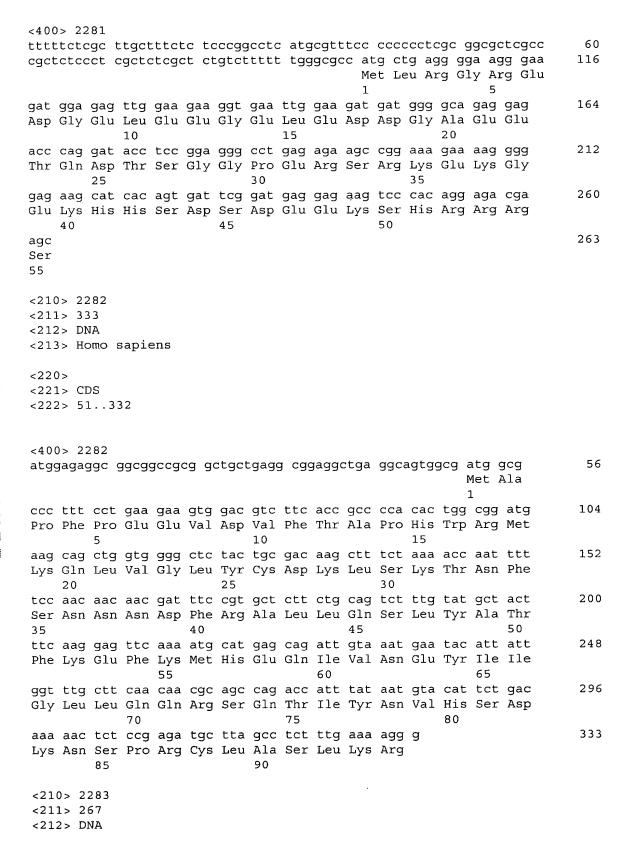
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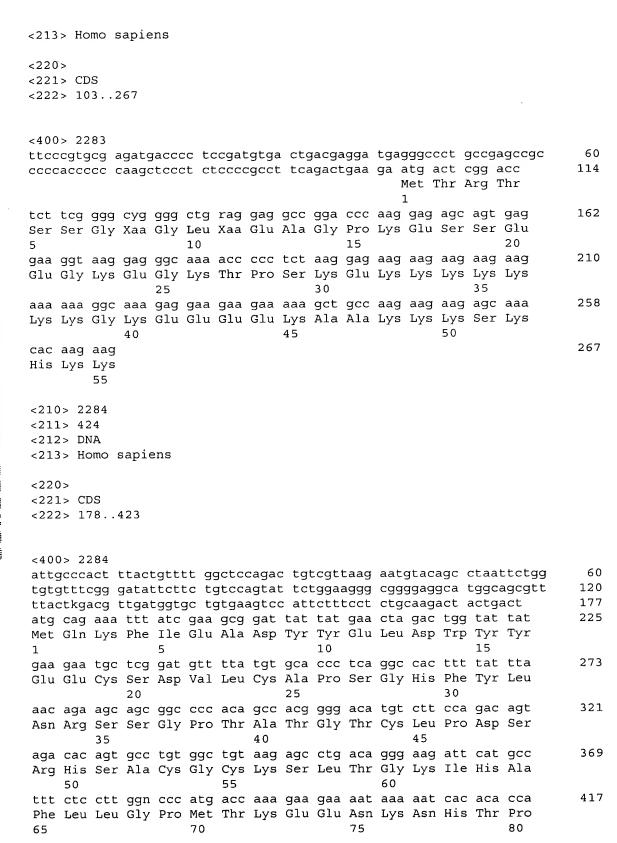
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